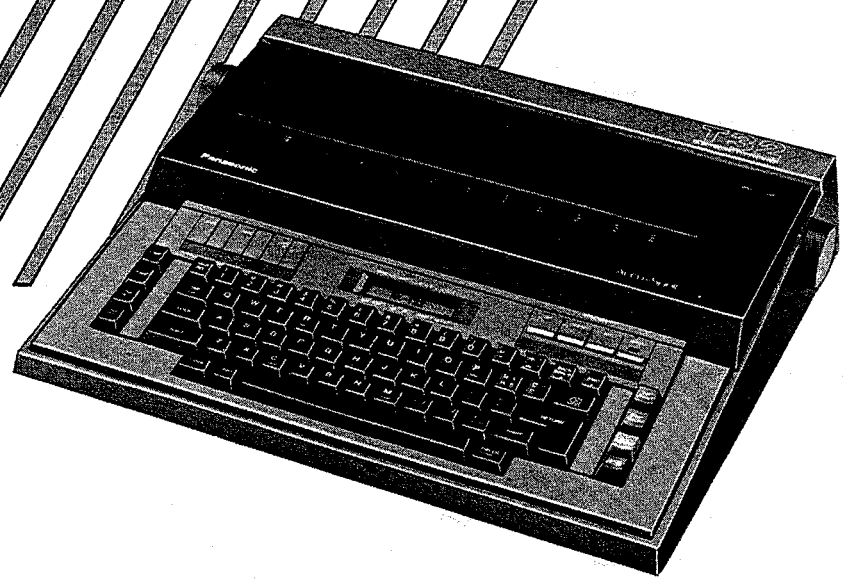
Panasonic

Electronic Typewriter

MODEL NO. **RK-T32**

OPERATING INSTRUCTIONS



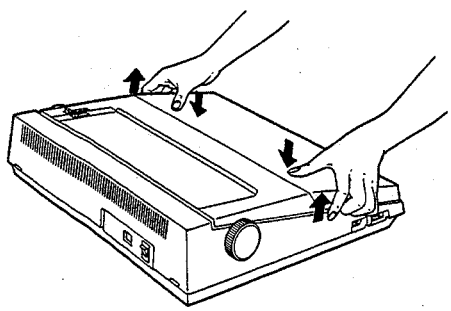
Read these instructions completely before operating this unit.

XXL

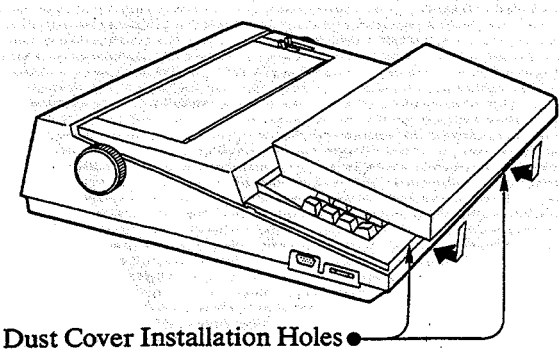
Thank you for your purchase of the Panasonic RK-T32 Electronic Typewriter.

Dust Cover Removal

To remove the Dust Cover, hold it with both hands, and push and pull in the direction of the arrow.

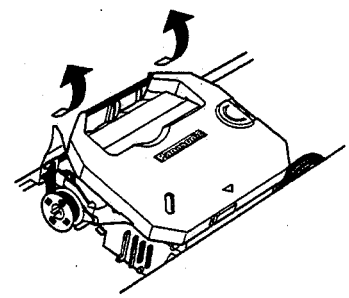


•Installation
Insert the two "extension" of the Dust Cover into the Dust Cover Installation Holes on the unit, and push down gently the front of the Dust Cover to lock it.

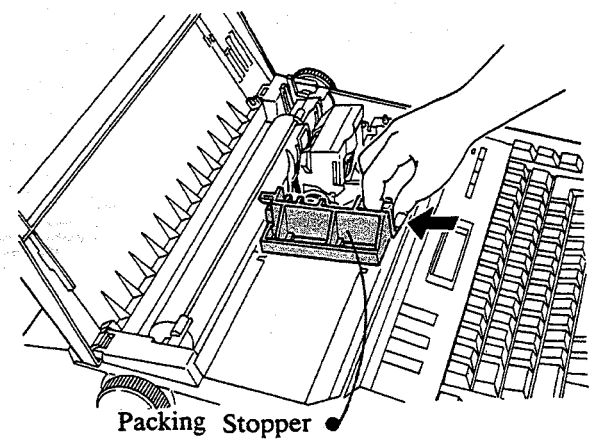


Packing Removal

Before using the typewriter, open the Top Cover and remove the Ribbon Cassette as shown.



Pinch the Packing Stopper as shown below, and lift and remove it.



Set the Ribbon Cassette. (Refer to page 11.)

The Operating Instructions for this unit are composed of the following six chapters.

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1-1 NAMES AND OPERATION OF THE PARTS

a. Names and Operation of the Main Parts

Carriage
The Ribbon Cassette, the Correction Tape and the Cupwheel Printing Element are installed on the Carriage. This mechanism moves to the left and right for printing, erasing, etc.

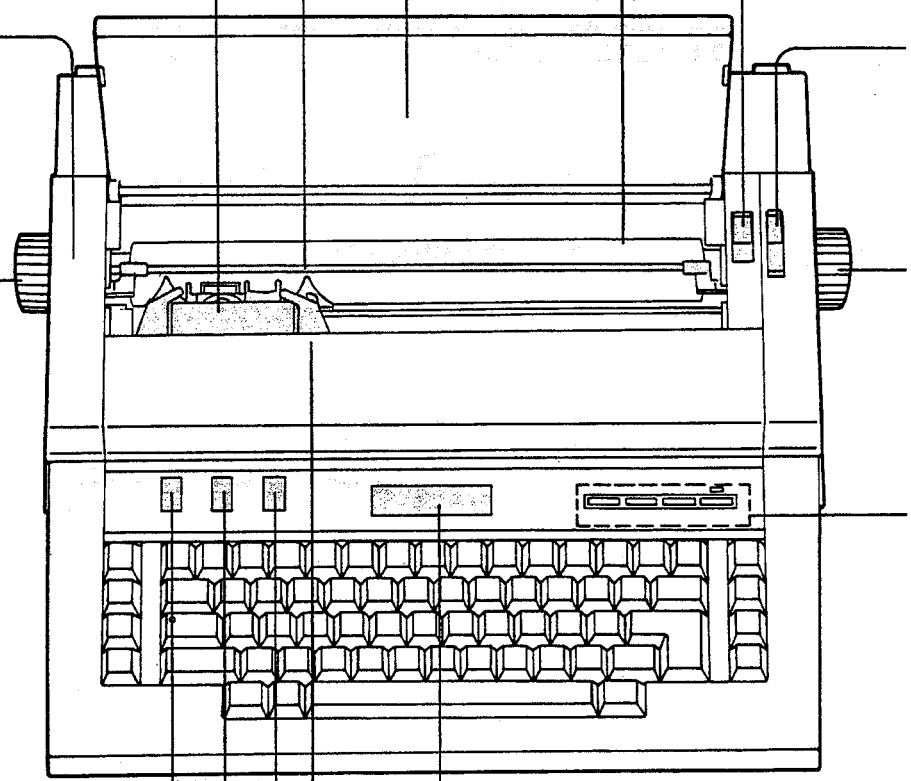
Paper Bail
This is used to hold the paper down.

Paper Support

Platen

Top Cover
This cover must be opened to replace the Ribbon Cassette or the Correction Tape.

Platen Knob (left)
Either one of the knobs can be used to feed the paper up and down manually. By pressing the left Platen Knob inward you can rotate the Platen in small increments.



LCD Display

Operation Mode Key (MODE)

Pitch Key (PITCH)

Line Spacing Key (LINE SP)

Pitch Scale
Scales for the three pitches of 10, 12 and 15 are shown. Use these scales for margin and tab setting.

Accessories (included)
- Cupwheel Printing Element
- Correctable Film Ribbon Cassette
- Lift-off Correction Tape
- AC Power Cord
- Dust Cover

Paper Release Lever
This lever is used to release the paper. Pull this lever towards you to adjust the paper position, and then move it back to lock the paper.

Paper Bail Lever
By pulling back this lever, the Paper Bail will move away from the Platen. This allows the paper to be easily inserted and positioned for typing.

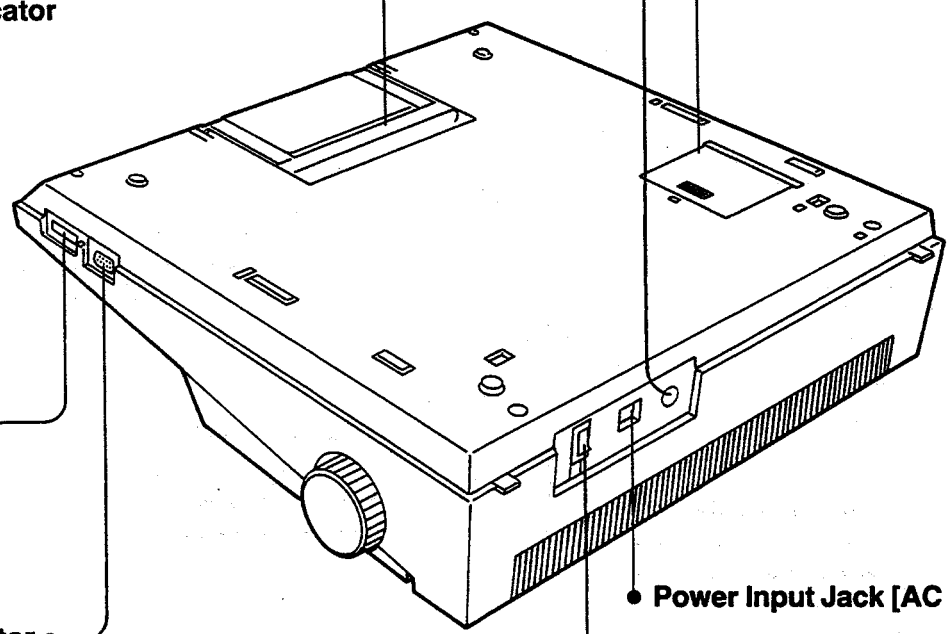
Platen Knob (right)

Voltage Selector (VOLTAGE SELECTOR)
Not provided for the model for 240 V, 50 Hz areas.

Bottom Cover Lid
By sliding this lid to the right, it can be removed to exchange the Cupwheel Printing Element.

Carrying Handle

Spell Verify Function Keys and Spell Verify Indicator (SPELL VERIFY)



LCD Contrast Adjustor (CONTRAST)
This is used to adjust the contrast of the LCD Display.

Interface Connector
You can use this unit as a printer by connecting the optional Interface Adaptor RP-K100/ RP-K105 to receive data from a Computer.

Power Input Jack [AC IN ~]

Power Switch [POWER (I-on/○-off)]

NAMES AND OPERATION OF THE PARTS

b. Names and Operation of the Function Keys

Margin Release Key (MAR REL)
The left or right margin is released temporarily.

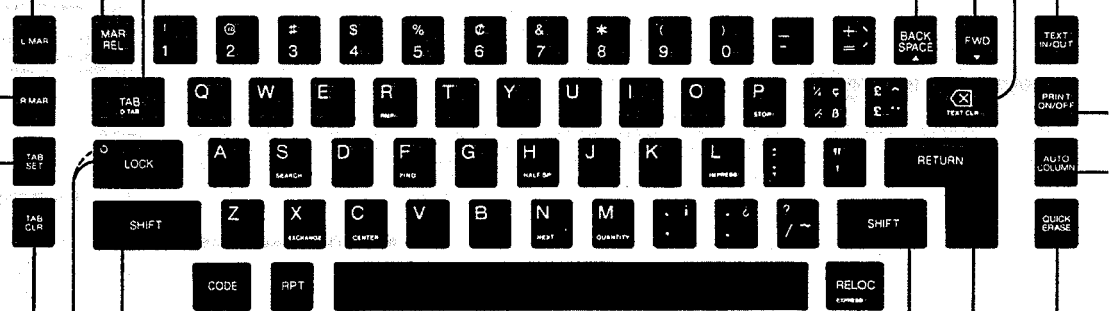
Tab Key (TAB)
The Carriage moves to the next tab position.

Forward Key [FWD (▼)]
The Carriage or the cursor on the LCD Display will by one character to the right.

Left Margin Set Key (L MAR)

Back Space Key [BACK SPACE (▲)]
The Carriage or the cursor on the LCD Display will move by one character to the left.

Right Margin Set Key (R MAR)



Tab Set Key (TAB SET)

Tab Clear Key (TAB CLR)

Shift Lock Key and Shift Indicator (LOCK)
Press this key for continuous typing of capital letters or the symbols shown at the upper part of the keys.
Press the **SHIFT** Key to cancel the shift lock.

- **Shift Indicator**
  This indicator lights in the shifted condition.

Space Bar
The Carriage moves by one space to the right.

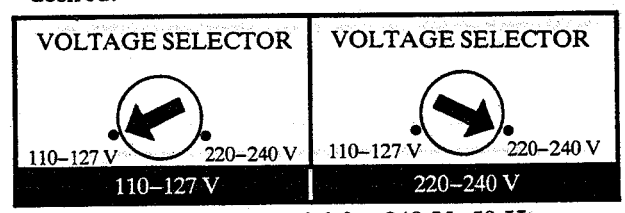
Repeat Key (RPT)
The operation of the key pressed immediately before this key will be repeated.

Shift Key (SHIFT)
When a character key is pressed while this key is being pressed, the capital letter or the symbol shown on the top part of the key will be printed.

Code Key (CODE)
This key is used in combination with other keys to modify their functions. Make sure the **CODE** Key is held down when pressing the other key.

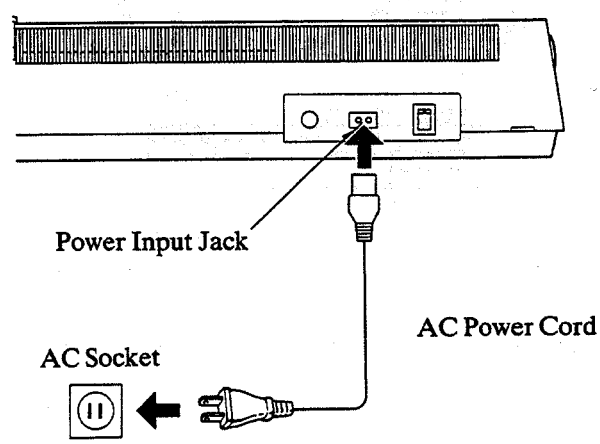
a. Using Household AC Power

•First, check the AC Voltage Selector to insure that it is set to the voltage which corresponds to your household AC voltage. If not, select the proper voltage by inserting a small screwdriver into the slot provided and turning the screwdriver until the desired.



Not provided for the model for 240 V, 50 Hz areas.

•Connect the AC Power Cord to the Power Input Jack in the unit and household AC Socket.



b. Power Switch

When the **POWER** Switch is set to "ON", the Carriage moves to the left margin which was last set and the unit is ready for typing.

c. Memory Back-up Function

The following will remain memorized even after the **POWER** Switch has been set to "OFF":

- Stored Text
- Margins
- Tabs
- Contents of the user dictionary for Spell Verify Functions

The built-in lithium battery that is used to store these functions can be used for about 15 years.

•Delete Key (⌫)
This key is used to delete printed characters or characters on the LCD Display.

•Text IN/OUT Key (TEXT IN/OUT)
This key is used for entering into the Text Memory Mode or for exiting from the Text Memory Mode.

•Print ON/OFF Key (PRINT ON/OFF)
This key is used to start or stop the printout of the text stored in the Text Memory.

•Auto Column Key (AUTO COLUMN)
This key is used to make a table.

•Quick Erase Key (QUICK ERASE)
This key is used to automatically erase one word at a time.

•Return Key (RETURN)
The Carriage moves to the left margin or paragraph indent position of the next line.

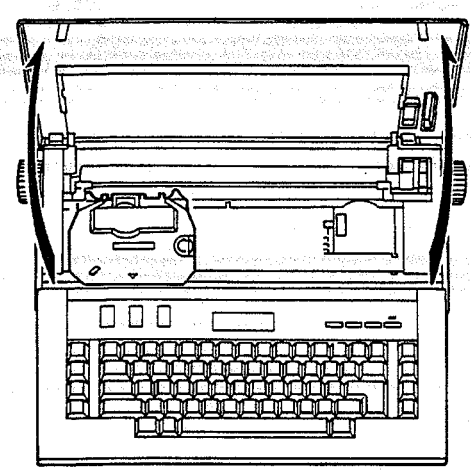
•Shift Key (SHIFT)

•Relocation Key and Express Back Space Key (RELOC • EXPRESS)
This key is used to move the Carriage to the position after the last printed character on the current line. If the **RELOC • EXPRESS** Key is pressed while pressing the **CODE** Key, the Carriage will move to the left margin without a line feed.

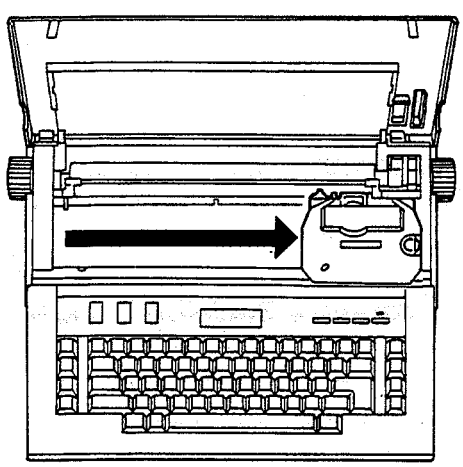
1-3 REPLACING THE CUPWHEEL™ PRINTING ELEMENT

1 Set the **POWER** Switch to the "OFF" position. Remove the AC Power Cord from the Power Input Jack.

2 Hold both sides of the Top Cover and open it.

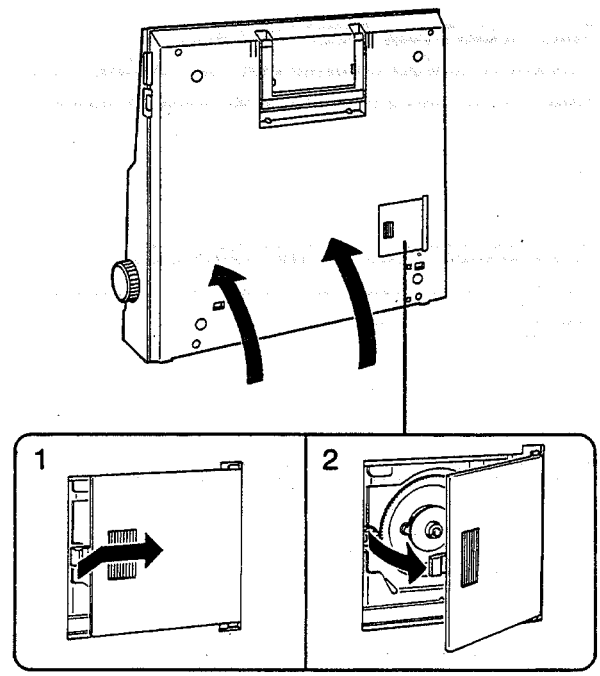


3 Using your hand, gently move the Carriage to the right side.

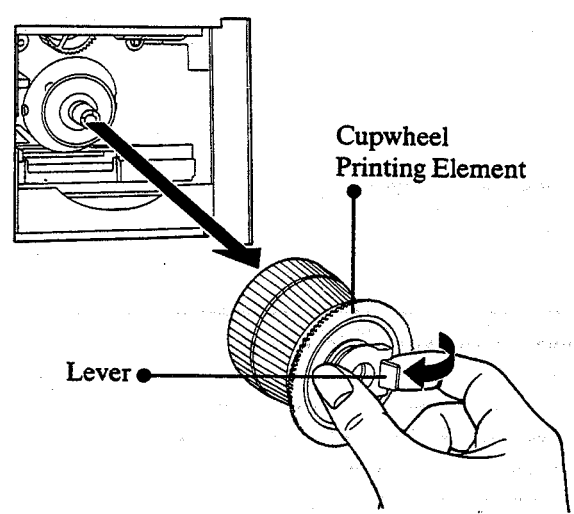


When the **POWER** Switch is set to "ON" while the Carriage is on the right side (after step 10), a mechanical noise will occur. This is not a problem.

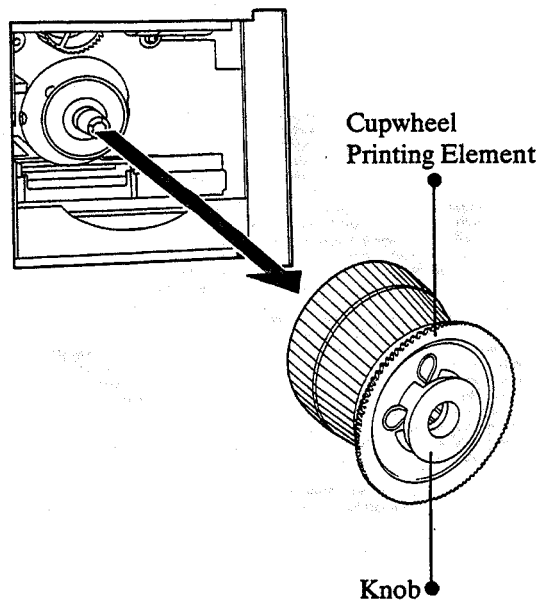
4 Close the Top Cover again and place the Typewriter on its back.
Remove the Bottom Cover Lid by sliding it to the right side.



5 Grasp the Lever of the Cupwheel Printing Element between your fingers to release the lock. Then pull it directly out as shown in the figure.

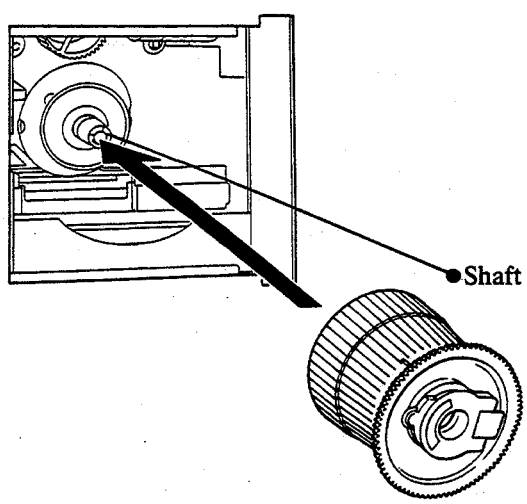


●If a Cupwheel Printing Element without the Lever is used, grasp its Knob and pull it directly out.

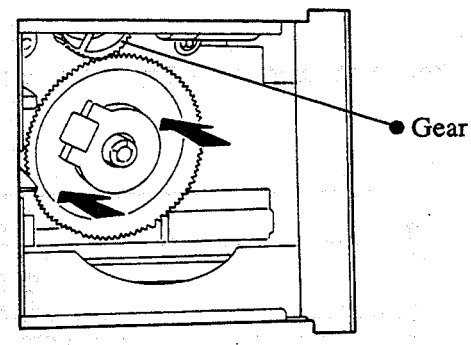


6 Insert another Cupwheel Printing Element so that the shaft enters the hole in the center of the element.

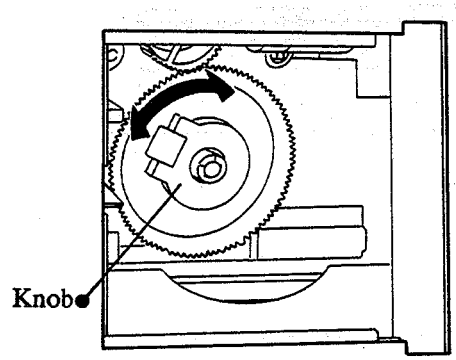
●Insert the element so that it will not get caught by the Ribbon carefully.



7 Confirm that the gear is engaged and then push in until a clicking sound is heard.



8 Hold the Knob of the Cupwheel Printing Element and turn it slightly to check that it rotates freely.



9 Slide the Bottom Cover Lid to its closed position.

10 Before setting the **POWER** Switch to "ON", confirm that the Cupwheel Printing Element has not been caught by the Ribbon.
If the Element has been caught, remove the Ribbon Cassette and install it again.

Refer to pages 10 and 11.

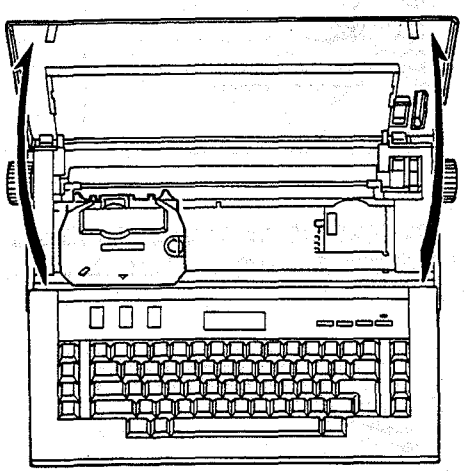
●Set the Pitch in accordance with the type of Cupwheel Printing Element.

If the power is switched on while the Cupwheel Printing Element is incorrectly installed, the buzzer will sound.
In this case, set the **POWER** Switch to "OFF" and install the Cupwheel Printing Element correctly.

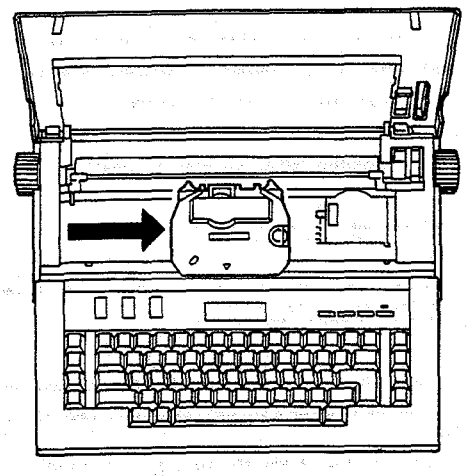
1-4 REPLACING THE RIBBON CASSETTE

1 Set the **POWER** Switch to the "OFF" position.

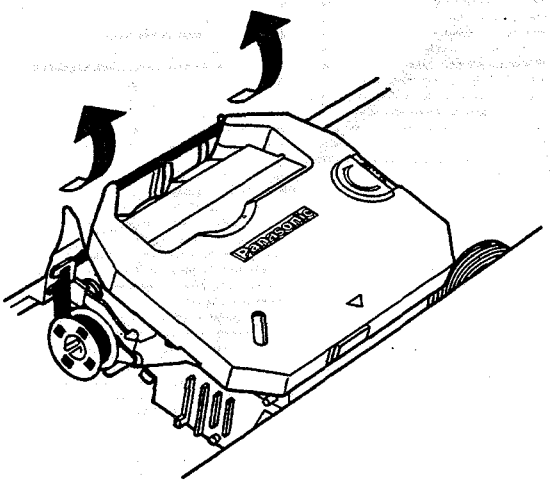
2 Hold both sides of the Top Cover and open it.



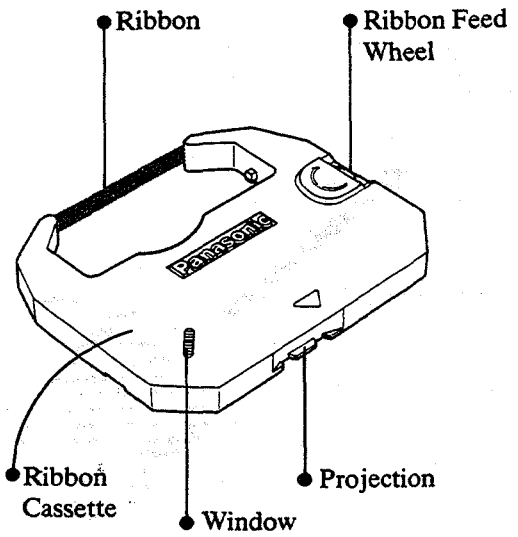
3 Using your hand, gently move the Carriage to the center of the Platen.



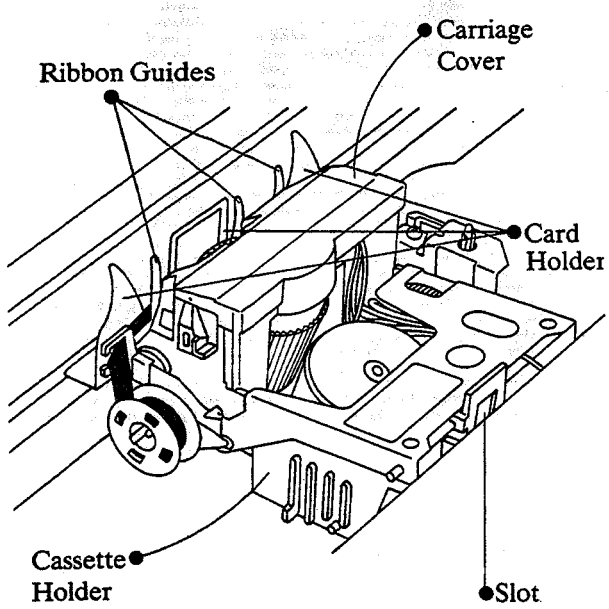
4 Hold the used Ribbon Cassette with both hands and remove it by first raising the front end and then lifting the entire Ribbon Cassette.



5 Turn the Ribbon Feed Wheel (on the new Ribbon Cassette) clockwise to tighten the Ribbon.

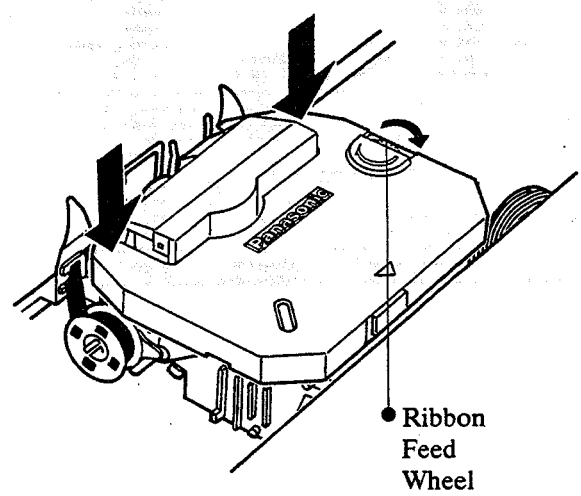


6 Position the new Ribbon Cassette over the Cassette Holder so that the Window (through which the ribbon can be seen) is on the top, then place the Projection on the rear of the cassette into the Slot at the front of the Cassette Holder.



7 Set the Ribbon between the Carriage Cover and the Ribbon Guides and then gently press the front of the cassette with both hands until the cassette is locked. Turn the Ribbon Feed Wheel clockwise until a clicking sound is heard.

- With a new ribbon, turn the Ribbon Feed Wheel until the black ribbon can be seen.



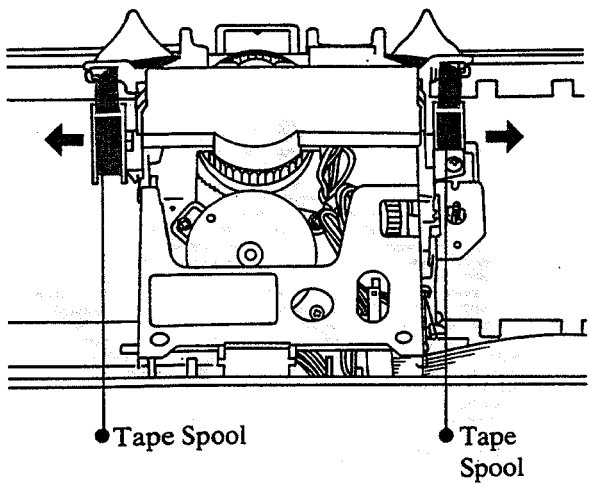
8 Confirm that there is no slack in the Ribbon. If there is slack, turn the Ribbon Feed Wheel clockwise to remove it.

Do not apply excessive force to or bend the flat cable coming out from the Carriage.

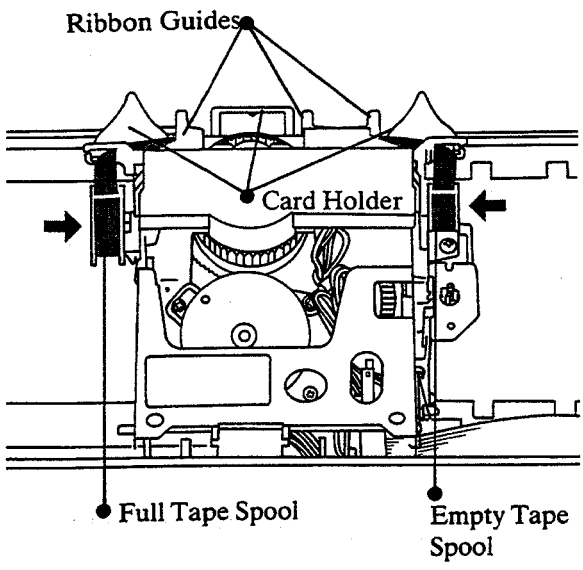
1-5 REPLACING THE CORRECTION TAPE

1 Remove the Ribbon Cassette by following steps 1~4 of "REPLACING THE RIBBON CASSETTE".

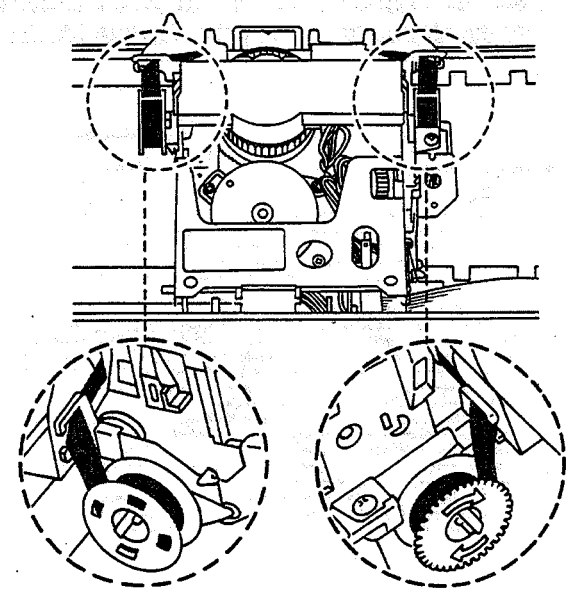
2 Remove the used Correction Tape by pulling the Tape Spools outwards on both sides.



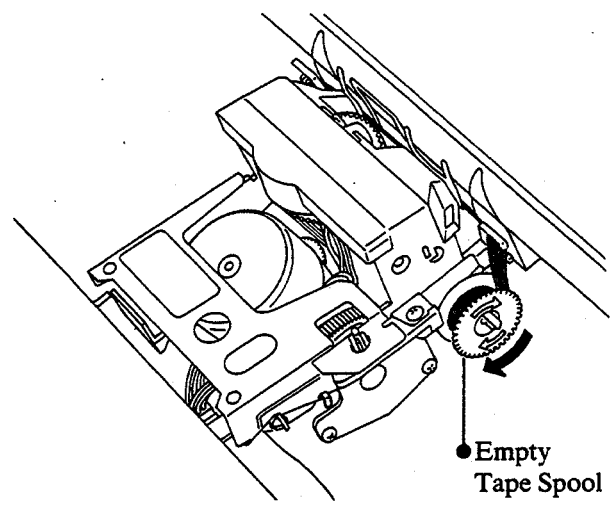
3 Place the new Correction Tape with the Full Spool on the left side, and then pass the tape between the Card Holder and the Ribbon Guides.



•Make sure that the inner surface of the tape on the spool faces toward the Platen.



4 Turn the right spool clockwise until the white tape appears at the center of the Card Holder.

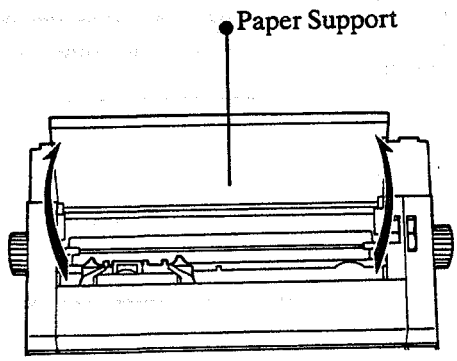


5 Install the Ribbon Cassette properly. (Follow steps 6 through 8 of "REPLACING THE RIBBON CASSETTE".)

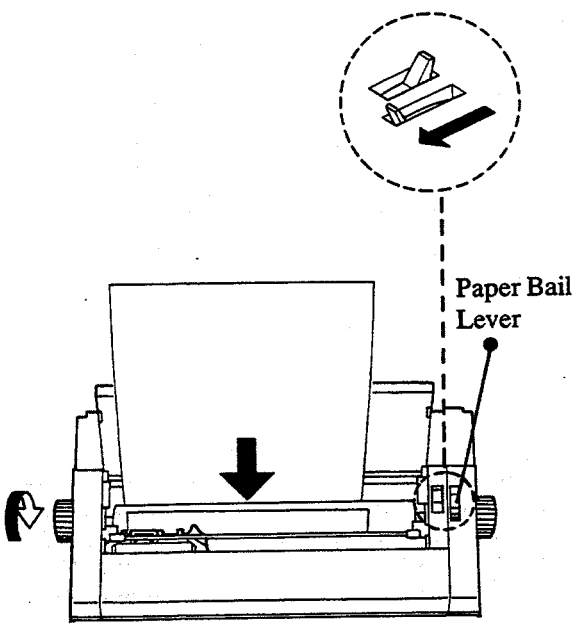
Always set the **POWER** Switch to "OFF" before exchanging the Correction Tape.
Do not touch the Carriage while the power is "ON".

1-6 INSERTING THE PAPER

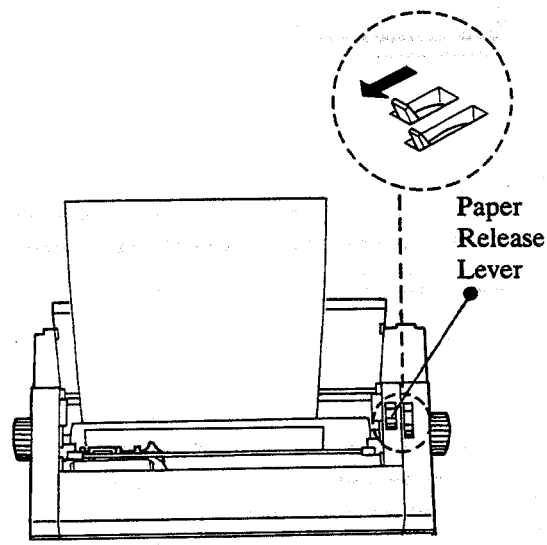
1 Raise the Paper Support.



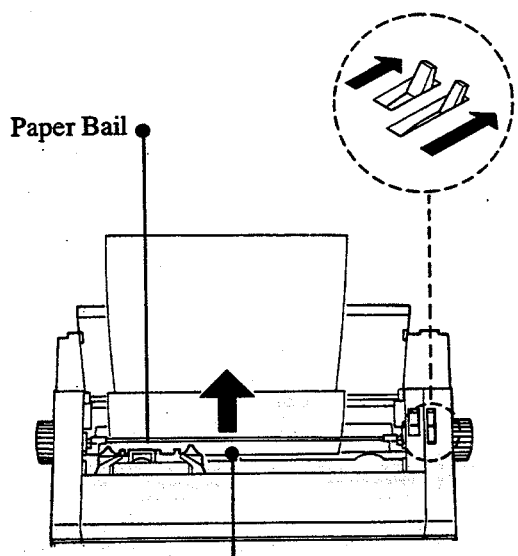
2 Insert the paper straight under the back of the Platen.
Pull the Paper Bail Lever towards you. While keeping the left edge of the paper in line with the marker on the Paper Support, turn the Platen Knobs until the paper appears at the front of the Platen.



3 Feed the paper underneath the Paper Bail, pull the Paper Release Lever, and adjust the paper.



4 Return the Paper Release Lever and Paper Bail Lever to their original positions.



Proper printing and correction will not be possible if there is any slack in the paper. Hold the paper by the top edges and pull up to remove any slack.

2-1 TYPING

a. Procedure for Typing

1 Verify that the Cupwheel Printing Element, Ribbon Cassette and Correction Tape are correctly installed.

Refer to pages 8 to 12.

2 Connect the AC Power Cord to the Power Input Jack in the unit and household AC Socket.

Refer to page 7.

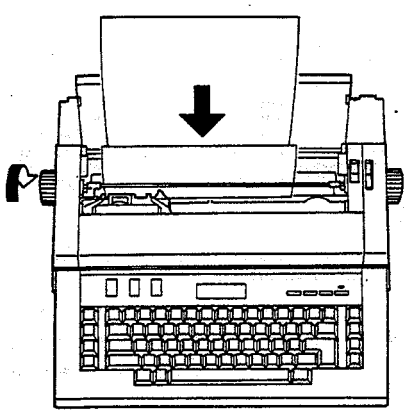
3 Set the **POWER** Switch to the "ON" position. The Carriage will initialize and move to the left margin that was last set.

- If the Carriage is on the right side (immediately after removing the Packing Stopper or replacing the Cupwheel Printing Element, etc.), a mechanical noise will occur. This is not a problem.

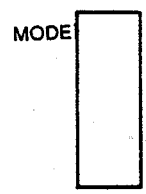
Refer to page 7.

4 Insert the paper under the back of the Platen and rotate the Platen Knob to feed the paper to the desired position.

Refer to page 13.



Typing may now proceed.



1 Press the **MODE** Key to make the following message appear on the LCD Display. (It may be necessary to press the **MODE** Key more than once.)

```
TPWR MODE
```

2 Try typing the following word:

typewriter

- The characters have now appeared on the paper as:

```
typewriter
```

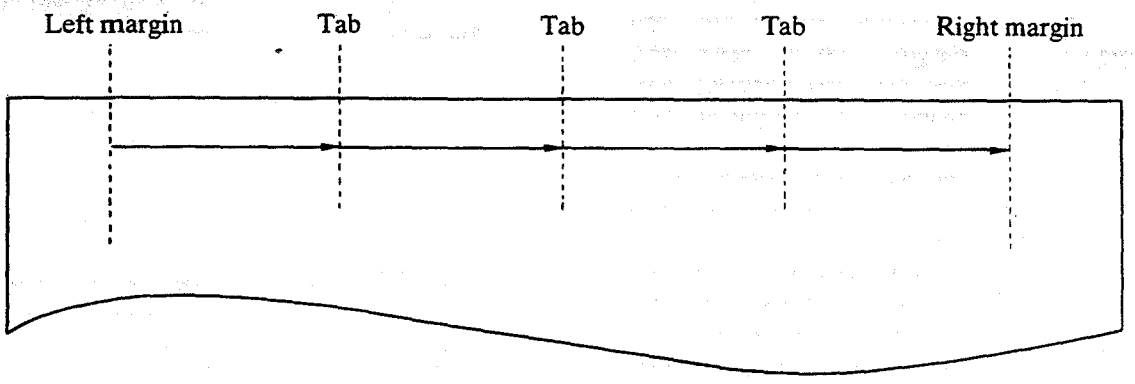
The Typing of one character at a time onto the paper is called the Typewriter (TPWR) Mode.

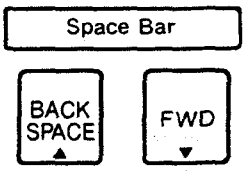
You now know how to proceed with simple typing. Read through the following description in order to make full use of the unit's functions.

If the operation is interrupted and/or the buzzer sounds continuously turn the unit off and then on. If the unit does not return to normal operation and/or the buzzer still sounds check to see if the Ribbon Cassette or the Correction Tape has reached its end.

b. Margin and Tab Settings

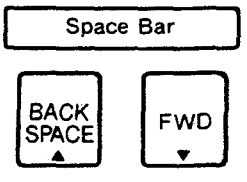
TPWR Mode





1 Press the **Space** Bar, the **BACK SPACE** Key or the **FWD** Key to move the Carriage to the desired left margin.

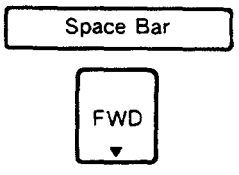
2 Press the **L MAR** Key to set the left margin.
The previous left margin is automatically cleared.



3 Press the **Space** Bar, the **BACK SPACE** Key or the **FWD** Key to move the Carriage to the desired tab position.

4 Press the **TAB SET** Key to set the first tab.

5 Repeat steps 3 and 4 to set other desired tab positions.
- Up to 16 tabs can be set in one line.



6 Press the **Space** Bar or the **FWD** Key to move the Carriage to the desired right margin.

7 Press the **R MAR** Key to set the right margin.
The previous right margin is automatically cleared.

This completes the settings for the left and right margins and for the tabs. To set the left and right margins only, skip steps 3, 4 and 5 and proceed. Press the **RETURN** Key to move the Carriage to the left margin on the next line and begin typing.

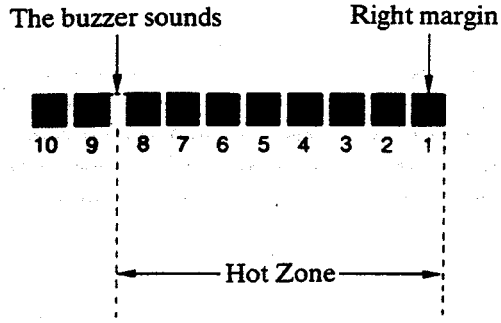
c. Margin Release

To set the left (or right) margin beyond the currently set left (or right) margin or to type characters beyond the right margin, press the **MAR REL** Key with the Carriage positioned at the margin in question.
The margin is temporarily released and the Carriage can be moved, or typing can be performed, beyond the margin. At this time, if you wish to set the left (or right) margin, press the **L MAR** Key (or **R MAR** Key).

When the Carriage reaches the right margin, the buzzer sounds and the keys are locked.
The keys can be released by following either of the steps below:
- Press the **RETURN** Key to move the Carriage to the left margin on the next line.
- Press the **MAR REL** Key to temporarily release the margin and continue typing.

d. Hot Zone

The Hot Zone is the area that starts with the sound of the buzzer and ends with the right margin. When the Carriage enters the Hot Zone, the buzzer sounds to indicate that only another 8 characters can be typed on that line. The same applies for the TPWR, L/L and JUST Mode.



e. Tab Clearing

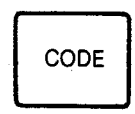
TPWR Mode

1 Press the **TAB** Key to move the Carriage to the tab position which is to be cleared.

2 The tab is cleared when the **TAB CLR** Key is pressed.

f. Clearing All Tabs

TPWR Mode

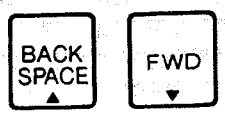


Press the **TAB CLR** Key while pressing the **CODE** Key to clear all the tabs.

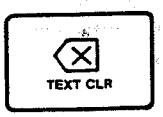
2-2 CORRECTION

a. Automatic Correction

This unit has a one line correction memory, so you can delete the characters on the current line automatically with one simple operation.



1 Use the **BACK SPACE** Key or **FWD** Key to move the Carriage or cursor to the position of the character to be corrected.



2 Press the ⌫ Key. The character will be deleted.

3 At this time, to continue automatic correction press the **RPT** Key. This will cause the previously printed characters on the line to be deleted one at a time until the **RPT** Key is released.

4 Type the correct character.

- When you correct on the LCD Display, make sure to press the **FWD** Key once before typing.

Refer to page 21.

5 When the **RELOC** Key is pressed, the Carriage or cursor returns to the end of the line and typing can be continued.

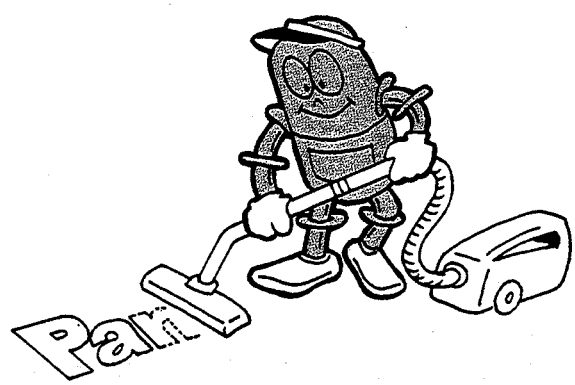
- Directly after printing a character at the end of the line, the Carriage or cursor will move back and the character will be deleted automatically when the ⌫ Key is pressed. (In this case, you need not press the **BACK SPACE** Key even if you correct on the LCD Display.)
- Automatic Correction is not possible after the **RETURN** Key has been pressed. In this case, Manual Correction must be performed.
- When several characters have been printed superimposed, only the character printed last will be deleted automatically.

Correction Tape

Two types of tape can be used for correction.

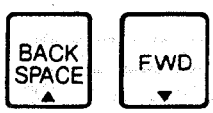
- **Lift-off Correction Tape**
  This type of correction tape is used together with correctable film ribbon.

- **Cover-up Correction Tape**
  This tape is used together with fabric ribbon.



b. Quick Erase

The QUICK ERASE feature allows you to correct one word at a time. Like Automatic Correction, this feature works only in the correction memory.



1 Using the **BACK SPACE** Key or **FWD** Key, move the Carriage or cursor to the last character of the word to be erased.
- If you have pressed the **Space** Bar after typing an incorrect word, make sure to press the **BACK SPACE** Key before pressing the **QUICK ERASE** Key.

2 Press the **QUICK ERASE** Key.
The word will be erased.

3 Type the correct word.

4 Press the **RELOC** Key to move the Carriage or cursor to the end of the line.

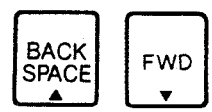
By pressing the **QUICK ERASE** Key when the Carriage or cursor is in the middle of a word, the characters to the left of the current position will be corrected.

c. Manual Correction

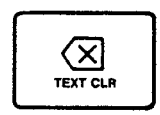
TPWR Mode

When an error is noticed after the **RETURN** Key has been pressed, Manual Correction must be used to delete error.

1 Turn the platen to position the Carriage on the line where the correction is to be made.



2 Using the **BACK SPACE** Key or **FWD** Key, move the Carriage to the position of the character to be corrected.

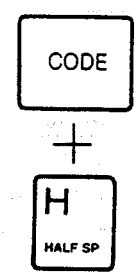


3 Press the ⌫ Key and then the key of the character to be deleted, the respective character will be deleted.

4 Type the correct character.

5 Move the Carriage to the position of the last character which was typed to continue typing.

Half Space

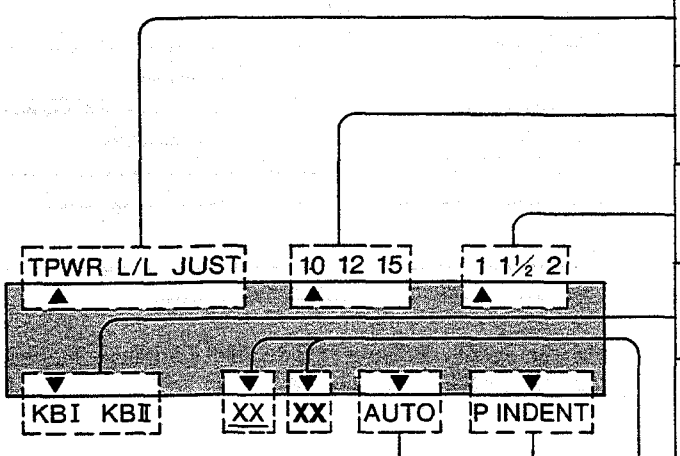


Press the **H** Key while pressing the **CODE** Key to move the Carriage a half space.
This function is used to insert a character into a word when you have already typed past it.

2-3 DESCRIPTION OF FUNCTIONS

These functions can be set or released during typing simply by pressing the key or pressing the key corresponding to the function while pressing the **CODE** Key.

- When the "▼" or "▲" mark appears on the LCD Display, it indicates that the mode has been set.



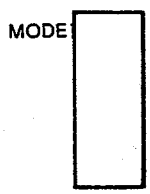
a. Operation Mode	MODE
b. Pitch	PITCH
c. Line Spacing	LINE SP
d. Keyboard	KEYBOARD: CODE + MAR REL
e. Printing Mode	
•Underline Printing	XX: CODE + ! 1
•Bold Printing	XX: CODE + @ 2
f. Paragraph Indent Mode	P INDENT: CODE + $ 4
g. Carriage Return Mode	AUTO: CODE + # 3

- **The following functions are also available.**

h. Decimal Tab	CODE + TAB D TAB
i. Centering	CODE + C CENTER
j. Right Margin Flush	CODE + R
k. Typing Impression Control	CODE + L IMPRESS

DESCRIPTION OF FUNCTIONS

a. Operation Mode



The printing method is selected.
Press the **MODE** Key to select the operation mode. Each time it is pressed, the message and the position of the "▲" mark on the LCD Display changes.

Typewriter Mode

```
TPWR MODE
```

Line by Line Printing Mode

```
L/L MODE
```

Justify Printing Mode

```
JUST MODE
```

Typewriter (TPWR) Mode

The characters entered will be printed immediately. Margin and tab settings are executed in this mode.

Line by Line (L/L) Printing Mode

When character keys are pressed, the respective characters appear on the LCD Display and can be edited (inserted, deleted, corrected) on the display before they are printed.
When the **RETURN** Key or **TAB** Key is pressed, the characters in the line are printed.

Justify (JUST) Printing Mode

This mode will print each line so that the first character is printed on the left margin and the last character is printed on the right margin.
The typed characters will first appear on the LCD Display (at this time the characters can be edited before they are printed).
When further input will exceed the right margin the characters will be printed on the paper.
For this reason, you need only press the **RETURN** Key when you wish to end the paragraph.
If the **RETURN** Key is pressed, the characters typed up to that point will be printed without being justified.

- Justified printing will start only when the cursor is at the last character position on a line.

- In the Justify Printing Mode, the Carriage Return Mode setting is irrelevant.

Repeat Functions

The following keys have a repeat function when they are continuously pressed:

- **Space** Bar
- **BACK SPACE** Key
- **FWD** Key
- **RETURN** Key

Key repetition is also possible for the following keys by pressing the **RPT** Key after the respective key:

- Character keys
- **Space** Bar
- **BACK SPACE** Key
- **FWD** Key
- **RETURN** Key
- ⌧ Key
- **TAB** Key

•Editing on the LCD Display (inserting, deleting, correcting)

Follow the explanation below to change "Typewrlter" to "Typewriter".

1 Type

T y p e w r l t e r

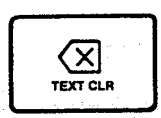
Typewrlter_

Cursor

2 Press the **BACK SPACE** Key four times to move the cursor to below the "l".

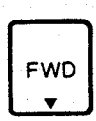
Typewr_lter

3 Press the ⌫ Key to delete the "l".



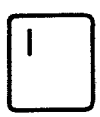
Typewr_ter

4 Press the **FWD** Key to move the cursor to below the "t".



Typewr_ter

5 Press the **I** Key to insert the "i".

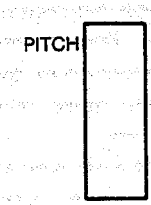


Typewri_ter

6 When the **RELOC** Key is pressed, the cursor will move to the position after the last character of the display, and further input becomes possible.

Typewriter_

b. Pitch Selector



Set according to the pitch of the Cupwheel Printing Element being used.

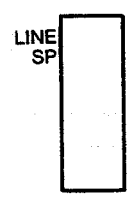
Press the **PITCH** Key to position the "▲" mark on the LCD Display under the desired setting.

10 ▲ ..... 10 characters per inch (2.54 cm) can be printed.
The maximum number of characters that can be printed in one line is 101.

12 ▲ ..... 12 characters per inch (2.54 cm) can be printed.
The maximum number of characters that can be printed in one line is 121.

15 ▲ ..... 15 characters per inch (2.54 cm) can be printed.
The maximum number of characters that can be printed in one line is 151.

c. Line Spacing Selector



This selects the amount of paper that is fed each time the **RETURN** Key is pressed.

Press the **LINE SP** Key to position the "▲" mark on the LCD Display under the desired setting.

1 ▲ ..... Paper is fed by one line.

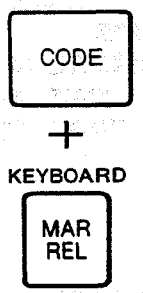
1½ ▲ ..... Paper is fed by one and a half lines.

2 ▲ ..... Paper is fed by two lines.

•When the Platen Knob is rotated manually, one click advances the paper one half of a line.

DESCRIPTION OF FUNCTIONS

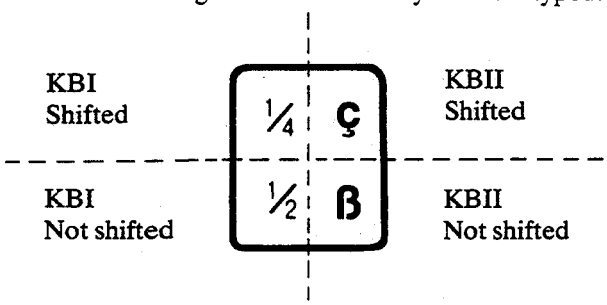
d. Keyboard



Between two and four characters and symbols are contained in each key. The keyboard mode is thus selected to differentiate between these characters and symbols.
Press the **MAR REL** Key while pressing the **CODE** Key to position the "▼" mark on the LCD Display above the desired setting.

▼
KBI ..... The characters and symbols on the left side of the key can be typed.

▼
KBII ..... The characters and symbols on the right side of the key can be typed.



•Combinations with accent symbols (dead keys)
The following combinations are possible:

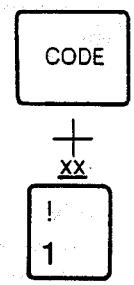
Since the five accent symbols (` ´ ^ ¨ ~) are used together with other characters, the carriage does not move after these symbols are printed.

äëïöü
áéíóú
àèìòù
âêîôû
ãõñ

e. Printing Mode

Underlined printing and bold printing can be performed automatically.
The Underline and Bold Mode can be set independently.

Underlined Printing



When the **1** Key is pressed while pressing the **CODE** Key, the "▼" mark will appear and underlined printing will be performed from that point on. To cancel underlined printing, press the **1** Key while pressing the **CODE** Key again.

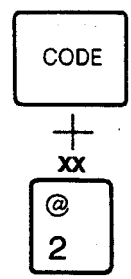
▼
XX ..... Underlined Printing setting

•Symbols when editing on the LCD Display

▸ ..... Underlined Printing Mode start

◂ ..... Underlined Printing Mode end

Bold Printing



When the **2** Key is pressed while pressing the **CODE** Key, the "▼" mark will appear and the characters from that point on will be printed in boldface. To cancel boldface printing, press the **2** Key while pressing the **CODE** Key again.

▼
XX.....Bold Printing setting

•Symbols when editing on the LCD Display

▸.....Bold Printing Mode start

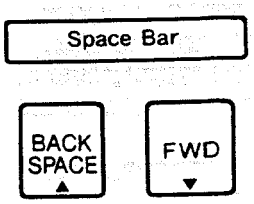
◂.....Bold Printing Mode end

•Bold printing is not executed for the following characters:

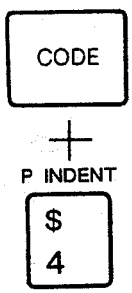
, . — ´ ` ^ ¨ ~

f. Paragraph Indent

This function is used when sentences are to be typed temporarily indented to the right.



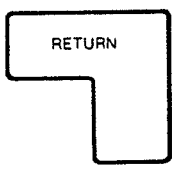
1 Move the Carriage to the position where the indent is to be set by using the **Space** Bar, **BACK SPACE** Key or **FWD** Key.



2 Press the **4** Key while pressing the **CODE** Key. The "▼" mark will appear and the present position of the carriage will be set as the temporary left margin.

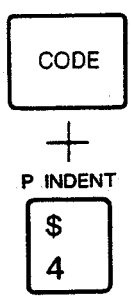
▼
P INDENT....Paragraph Indent setting

3 Type the characters.



4 When the **RETURN** Key is pressed, the Carriage moves to the indent position on the next line.

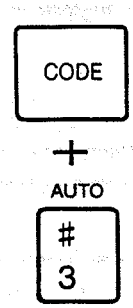
5 Continue to type.



6 To cancel the Paragraph Indent Mode, press the **4** Key while pressing the **CODE** Key again. The Carriage will return to the original left margin position when the **RETURN** Key is pressed.

- The Paragraph Indent Mode does not function outside the left or right margin.
- When the margin is reset, the Paragraph Indent Mode will be cancelled.

g. Carriage Return Mode



This function selects whether the Carriage return is made automatically or manually in the Hot Zone.
Press the 3 Key while pressing the **CODE** Key.
When pressed, the "▼" mark appears and Automatic Carriage Return Mode is set.
When pressed again, the unit returns to the Manual Carriage Return Mode.

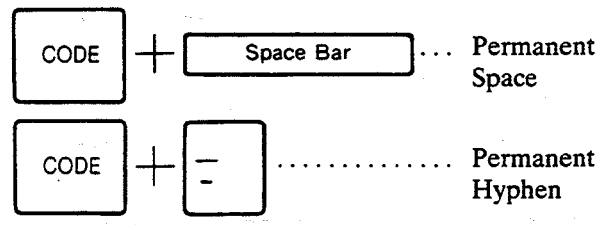
▼
AUTO ..... Automatic Carriage Return setting

- When a space or hyphen is entered in the Hot Zone, the carriage automatically moves to the left margin or paragraph indent position on the next line.
- When in the Justify Printing Mode, the Carriage Return Mode setting is irrelevant.
- This operates as the Auto Line Feed Selector when using the unit as a printer.

Refer to page 40.

Permanent Hyphen and Space

When in the Automatic Carriage Return Mode, this function allows typing to be continued without a carriage return in the Hot Zone.



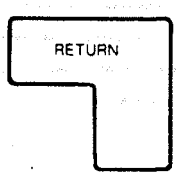
- A Permanent space is indicated as " ␣ " on the LCD Display. (When editing on the LCD Display)

DESCRIPTION OF FUNCTIONS

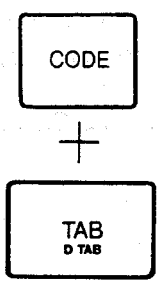
h. Decimal Tab

When the **TAB** Key is pressed while pressing the **CODE** Key, the decimal points can be aligned at the set tab position.

1 First, set a tab at the position where the decimal point is to be printed.



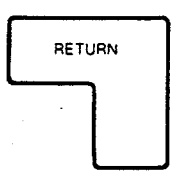
2 Press the **RETURN** Key to return the Carriage.



3 Press the **TAB** Key while pressing the **CODE** Key. This will move the carriage to the position where the decimal point will be printed.

```
DECIMAL TAB
```

4 Enter the number. The entered number is displayed on the LCD Display.



5 When the **RETURN** Key (the **TAB** Key, the **TAB** Key while pressing the **CODE** Key) is pressed, the number is printed.

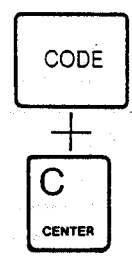
- Repeat the above steps (2 to 5) to type lists of statistics.

- When a large number of characters is to be entered and any further entry will go beyond the left margin or will be superimposed over already printed characters, the buzzer sounds and character input is no longer accepted.
- To cancel the Decimal Tab Mode, press the ⌫ Key and then press the **RPT** Key to delete all the entered characters until the buzzer sounds. Then press the ⌫ Key again.

i. Centering

Centering is performed as indicated below, depending on the Carriage position.

- When the Carriage is at the left margin, centering is performed between the left and right margins.
- When the Carriage is at a paragraph indent position, centering is performed between that position and the right margin.
- When the Carriage is on a tab, centering is performed between that tab and the next tab.
- When the Carriage is on the last tab, centering is performed between that tab and the right margin.



1 Press the **C** Key while pressing the **CODE** Key. The Carriage moves to the centering position.

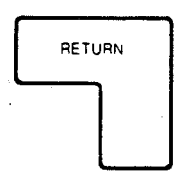
- When centering is between the margins:

```
L-R CENTERING
```

- When centering is between tabs:

```
TAB CENTERING
```

2 Enter the words or sentences to be centered.



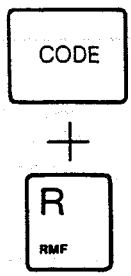
3 When the **RETURN** Key is pressed, the typed characters are printed. The Carriage returns to the left margin on the next line.

- When a line feed is not desired, press the **TAB** Key to move the Carriage to the next tab or to the right margin.

- When you try to enter a large number of characters and any further entry will go beyond the tabs or margins, or will be superimposed over already printed characters, the buzzer will sound and character input is no longer accepted.
- To cancel the Centering Mode, press the ⌫ Key and then press the **RPT** Key to delete all the entered characters until the buzzer sounds. Then press the ⌫ Key again.

j. Right Margin Flush

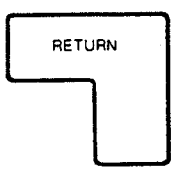
This function prints each line so that the last character is printed on the right margin.



1 Press the **R** Key while pressing the **CODE** Key. The Carriage moves to the right margin.

```
R-MARGIN FLUSH
```

2 Enter the words or sentences to be printed.

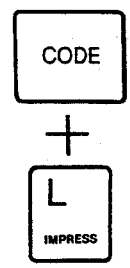


3 When the **RETURN** Key is pressed, the characters are printed with the last character on the right margin. The Carriage then moves to the left margin on the next line.

- When you try to enter a large number of characters and any further entry will go beyond left margin, or will be superimposed over already printed characters, the buzzer will sound and character input is no longer accepted.
- To cancel the Right Margin Flush Mode, press the ⟨⊠ Key and then press the **RPT** Key to delete all the entered characters until the buzzer sounds. Then press the ⟨⊠ Key again.

k. Typing Impression Control

This controls the impact of the printed characters. Select the impression level that is most suited for your needs.
(**Example:** You may wish to choose "IMPRESSION: 3" for carbon copies or choose "IMPRESSION: 1" for a single sheet of thin paper.)



1 Press the **L** key while pressing the **CODE** Key. Each time these keys are pressed, the typing impression level will change. A typing impression level of 1, 2 or 3 can be selected.

2 The message will show the level of the impression.

```
IMPRESSION : 3
```

- "IMPRESSION: 1" is softer than "IMPRESSION: 3".
- We recommend you to try impression "IMPRESSION: 3" first, and if you feel the impression is too hard, try "IMPRESSION: 2" or "IMPRESSION: 1".

2-4 AUTO COLUMN

This function is used to make a table (ruled form). You can set between 2 and 12 columns and it will automatically center them between the left and right margins.

For example, when making a table consisting of four columns

1 Press the **AUTO COLUMN** Key.

```
A.COLUMN MODE
```

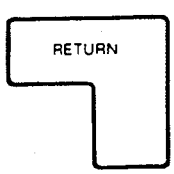
⇩

```
COLUMNS? [2-12]
```

2 Using the numeric keys, specify the required number of columns.
The LCD will then display the number of columns and the maximum number of characters per column.

```
4:[MAX 12CHR.]
```

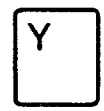
(For the example shown press the **4** Key.)



3 Press the **RETURN** Key. First, a line of the designated width will be typed. Next, the following message will appear.

```
HEADING Y/N ?
```

("HEADING" means "Age", "N", "Smoke", "No smoke" in the Example on page 27.)



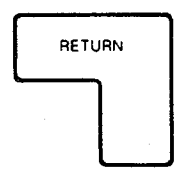
4 Press the **Y** Key if you wish to type headings for each column.

```
1:_
```

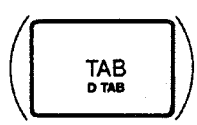
- Press the **N** Key if you do not wish to type headings and go to Step 9.

5 Type the heading for the first column.

```
1:Age_
```



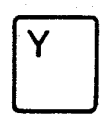
6 Press the **RETURN** Key or the **TAB** Key. The first column's heading will be printed at the center of the column and following will appear.




```
2:_
```

7 Repeat steps 5 and 6 and type each column's heading. When the **RETURN** Key or the **TAB** Key is pressed after entering the heading of the last column the following message will appear again.

```
HEADING Y/N ?
```



8 Pressing the **Y** Key will allow you to enter an additional line to each column's heading. Repeat step 5 and 6 for each column.

●Press the **N** Key if you wish to begin entering each column's data. A line equal to the width of the table will be typed beneath the headings, and the following message will appear.

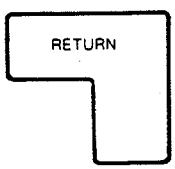
```
INPUT BODY
```

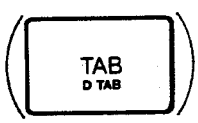
```
1:_
```

9 Type the data for each column.

```
1:Twenties_
```

10 Press the **RETURN** Key or the **TAB** Key. Data for the first column will be printed to the center of the column.






```
2:_
```

11 Repeat steps 9 and 10 and type all of the data.

12 Once all of the data has been typed, press the **AUTO COLUMN** Key. A line indicating the end of the table will be typed, and the following message will appear.

```
A.COLUMN  END
```

Example:

Age	N	Smoke	No smoke
Twenties	2,188	32.2	67.8
Thirties	2,873	35.4	64.6
Forties	2,634	33.6	66.4
Fifties	2,245	29.5	70.5

●Centering is performed in each column. But, if numerical data is typed, a decimal point will take priority.

●The maximum width of one coumn is equal to 14 characters. Consequently, if there are only a small number of columns, the table will appear at the center of the page without extending to the margins.

●In each column, a maximum of 12 characters can be printed. The number of characters is 2 characters less than the column width. If this number of characters is exceeded, a buzzer will sound and further input will not be accepted.

●If the margin is too small to print characters, a buzzer will sound and the following message will appear. And printout will be prevented. In this case, select the number of columns again or reset the margin width.

```
CHK LINE WIDTH!
```

●Once the Auto Column function is performed, the line spacing and pitch cannot be changed from the current settings.

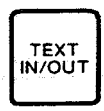
●The Paragraph Indent Mode is canceled on the Auto Column Mode.

●The Spell Verify function can be performed on the Auto Column Mode. Misspelled words will not printed even if the **RETURN** Key is pressed. To print the word itself, press the **RETURN** Key again.

●If spaces are typed until the buzzer sounds after typing the data ("Twenties", "Thirties", etc. on the above Example), left flush will be performed instead of centering.

3 TEXT MEMORY

a. How to Enter Text



1 Set the left and right margins, tabs and printing pitch.

2 Press the **TEXT IN/OUT** Key.

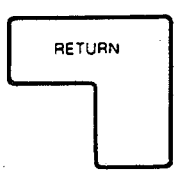
```
TEXT MODE
```

⇩

```
NAME= FWD/LIST
```

3 Input the file name using a maximum of 8 characters.
For example, input "LETTER1".
(When inputting the file name, all the letters will appear as capitals on the LCD Display.)

```
NAME=LETTER1_
```



4 Press the **RETURN** Key.

```
NEW FILE !!
```

⇩

```
STR FORMAT Y/N?
```

5 To memorize the registered line format, press the **Y** Key.
When not memorizing the line format, press the **N** Key.

- By pressing the **Y** Key, the current line format (Margins, Tabs, Printing Pitch) will be memorized, and will be used when printing. The "F" symbol will appear.

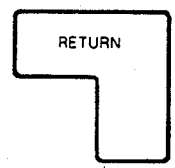
```
LETTER1F♦_
```

- By pressing the **N** Key, the line format will not be memorized. When the text is printed, it will be printed in accordance with the current Margins, Tabs, and Printing Pitch settings. The "F" symbol will not appear.

```
LETTER1♦_
```

6 Enter the text without taking note of the margins.
The text appears on the LCD Display and thus can be checked while it is entered.
If the right margin is exceeded, the Word-wrap Function automatically moves the last word to the next line.

- Press the **RETURN** Key only when required at the end of paragraph. The return mark "↲" will then appear on the LCD Display.



b. How to Print Text

Functions Stored in the Text Memory

You can register the following functions. Each time a function is registered, the corresponding symbol will appear on the LCD Display.

- Bold Printing ..... (start), (end)
- Underlined Printing..... (start), (end)
- Tab.....
- Paragraph Indent..... (start), (end)
- Decimal Tab.....
- Right Margin Flush .....
- Margin Centering.....

(TAB centering cannot be registered.)

- If you wish to enter Tabs or Decimal Tabs in a Text, it is recommended that you store the Line Format to avoid errors when the Text is printed.

Exiting from the Text Memory Mode

TEXT IN/OUT

Press the **TEXT IN/OUT** Key when text is not to be printed in the Text Memory Mode. You can exit from the Text Memory Mode.

```
TEXT MODE END
```

A total of 20 files can be registered. If an attempt is make to register more than this number of files, the following message will appear.

```
TOO MANY FILES!
```

1 Set the line spacing.

2 When the line format is not stored, set the margins, printing pitch and Carriage position.

- When you wish to perform justified printing of a text, set the Operation Mode to "JUST".

TEXT IN/OUT

3 Press the **TEXT IN/OUT** Key, enter the file name corresponding to the file whose contents are to be printed and press the **RETURN** Key.
Immediately after the desired file has been selected, the cursor will be located at the top of the text.
To start printing from an intermediate point in the text, move the cursor to the desired position.

PRINT ON/OFF

4 Press the **PRINT ON/OFF** Key.
Printing starts from the cursor position.

```
TEXT PRINTING
```

PRINT ON/OFF

5 To stop printing temporarily, press the **PRINT ON/OFF** Key again.
Printing then stops at the beginning of the next line.

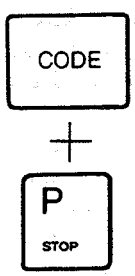
- The **PRINT ON/OFF** Key is used to start, temporarily halt and resume printing.
- After temporarily stopping printing, you can type additional words on the paper but these words will not be stored in the Text Memory.

6 Upon completion of printing, an exit is automatically made from the Text Memory Mode.

- Press the **TEXT IN/OUT** Key to exit from the Text Memory Mode while printing has been temporarily stopped.

Stop Codes

This unit will allow you to enter and instruct it to stop printing at a particular point so that you may insert variables within the body of the text.



During text entry, input the Stop Code by pressing the **P** Key while pressing the **CODE** Key.
As a result, when the text is printed out, printing will stop at that point.
The following message will appear.

```
STOP CODE
```

Type the variable information.

To resume printing, press the **PRINT ON/OFF** Key. The variable information will not become part of the stored text.

- ***Symbols on the LCD Display***

  STOP ..... Stop Code

- ***Other Uses for Stop Codes***

1. Stop Codes can be used to temporarily stop the printing of a large text so that the paper can be changed. Input the Stop Code at the point in the text where you wish to stop printing. When printing stops, change the paper then press the **PRINT ON/OFF** Key to resume printing.
2. Stop Codes can also be used to temporarily stop printing so that you can change the line spacing. When printing stops, change the line spacing and then press the **PRINT ON/OFF** Key to resume.

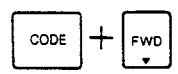
C. How to Edit Text

1 Press the **TEXT IN/OUT** Key, enter the file name corresponding to the file whose contents are to be edited and press the **RETURN** Key.

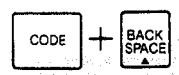
2 Proceed with the editing.

.... The cursor moves one character at a time to the right. When it reaches the end of the line it moves automatically to the beginning of the next line.

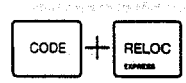
.... The cursor moves one character at a time to the left. When it reaches the beginning of the line it moves automatically to the end of the previous line.



... The cursor moves to the beginning of the next line.

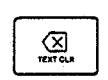


... The cursor moves to the beginning of the previous line.



.. The cursor moves to the beginning of the text.

.... The cursor moves to the end of the text.


... The character above the cursor is deleted.

Character keys ..... When a character key is pressed, the character is inserted automatically to the left of the cursor.

3 Upon completion of the editing, press the **TEXT IN/OUT** Key to exit from the Text Memory Mode.

```
TEXT MODE END
```

d. How to List the File Names

1 Press the **TEXT IN/OUT** Key.

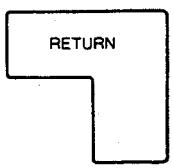
```
TEXT MODE
```

```
NAME= FWD/LIST
```

2 Press the **FWD** Key or **BACK SPACE** Key to display the file name.

- By pressing the **FWD** Key, the file names will be displayed from the last file name that was input.
- By pressing the **BACK SPACE** Key, the file names will be displayed from the first file that was input.

```
NAME=LETTER1
```

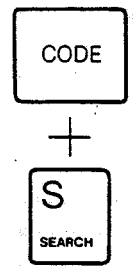


3 To print or edit the contents of text registered in a file, press the **RETURN** Key when the file name is displayed.
The unit will go into the Text Editing Mode.

```
LETTER1@◆MMay 5
```

e. Word Search and Replace

You can search for specific words in the Text Memory with ease.

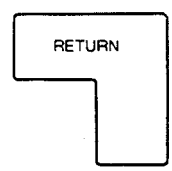


1 Press the **S** Key while pressing the **CODE** Key in the Text Editing Mode.

```
S.W.=_
```

2 Enter the word or phrase to be found.
If "product" is to be found, enter this word.

```
S.W.=product_
```

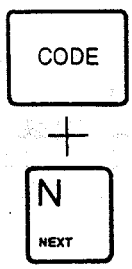


3 Press the **RETURN** Key. The search starts from the cursor position and the first occurrence of the word is displayed.

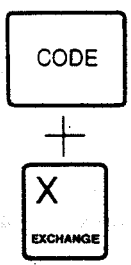
```
◆writer product
```

- If the word is not found in the text, "NOT FOUND!!" appears and the cursor position remains unchanged.

```
NOT FOUND !!
```



4 Each time you press the **N** Key while pressing the **CODE** Key, you can successively search for the same word.

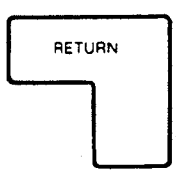


5 To exchange a word, use the previous procedure to find the word to be replaced.
When the word to be replaced is found, press the **X** Key while pressing the **CODE** Key.

```
R.W.=_
```

6 Enter the word to be replaced.

```
R.W.=apparatus_
```

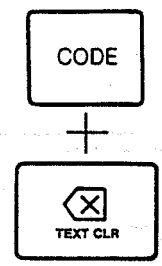


7 Press the **RETURN** Key.

```
‹iter apparatus
```

To input a return mark when searching for a word or inputting a word during a word replacing operation, press the **RETURN** Key while pressing the **CODE** Key.

f. How to Clear Text

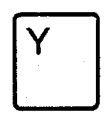


1 Press the ⌫ Key while pressing the **CODE** Key in the Text Editing Mode.

```
DELETE   Y/N?
```

```
[LETTER1 ] Y/N?
```

(Display applies when file "LETTER1" has been selected.)



2 Press the **Y** Key to clear the text.
The previous text will be cleared, and preparations for inputting a new text have been completed.

```
NAME= FWD/LIST
```

Press the **N** Key if you decide not to clear the text.

3 Press the **TEXT IN/OUT** Key to exit from the Text Memory Mode.

```
TEXT MODE END
```

g. How to Change Line Format

1 To store a new line format, first set the left and right margins, tabs and printing pitch in the TPWR Mode.

2 Press the **RELOC** Key while pressing the **CODE** Key in the Text Editing Mode to move the cursor to the beginning of the text.

CODE + RELOC EXPRESS

```
LETTER1▯◆MMay 5
```

3 Press the **MAR REL** Key.

MAR REL

```
CLR FORMAT Y/N?
```

- If the Line Format was not stored when the Text was originally entered, "NEW FORMAT Y/N?" will be displayed.

4 Press the **Y** Key.

Y

(Press the **N** Key if you decide not to clear the line format.)

N NEXT

```
NEW FORMAT Y/N?
```

5 Press the **Y** Key. The new line format is stored.

Y

(Press the **N** Key if you decide not to store the line format.)

N NEXT

h. Check of Remaining Memory

CODE + M QUANTITY

When the **M** Key is pressed while pressing the **CODE** Key in the Text Memory Mode, the amount of space left in the memory appears.

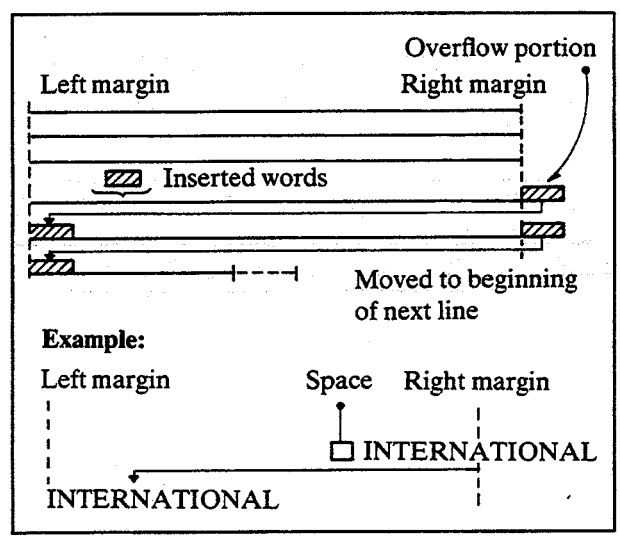
```
1234 CHR. LEFT
```

If you try to enter more characters when the memory is already full, the following message will appear and at the same time the buzzer will sound. The characters you entered are not accepted.

```
MEMORY FULL!!
```

i. Word-wrap

Word-wrap is a function applying when text is entered or when phrases are inserted. It automatically shifts a word which has gone beyond the right margin to the beginning of the next line. When the end of the next line goes beyond the right margin because of this movement, the same operation is automatically performed and it continues until there is no overflow. This function makes editing easier since words are positioned between the left and right margins without being split.

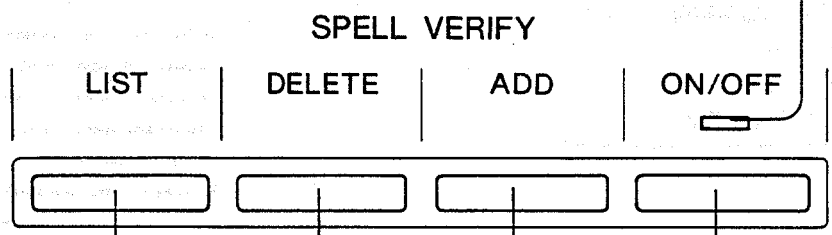


4 SPELL VERIFY

When you misspell a word, the Spell Verify Function informs you by means of an indication on the LCD Display and a buzzer. The words that are typed are checked by the main dictionary and the user's dictionary. The main dictionary contains about 73000 commonly used words. The user's dictionary is a supplement to the main dictionary, you can enter about 200 words that you find are not contained in the main dictionary. The words that you enter in the user's dictionary can be deleted and changed, or a list of the user's dictionary contents can be printed or displayed.

- Accu-Spell™ (73000 words) is a trademark of the Spell Verify Function in the U.S.A.

- The following keys are used as Spell Verify Function keys.



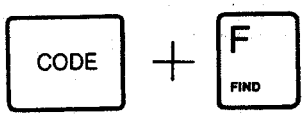
Spell Verify Indicator
This indicator lights when the **Spell Verify ON/OFF** Key is pressed, indicating that the Spell Verify Function is activated.

List Key
This key is used to list the words registered in the user's dictionary.

Delete Key
This key is used to delete words from the user's dictionary.

Add Key
This key is used to register words in the user's dictionary.

Spell Verify ON/OFF Key
This key is used to activate or deactivate the Spell Verify Function.

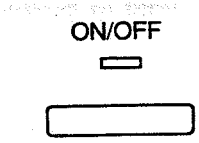


Use this operation to check the spelling of an entire text file.

Spell verify operates when you make an input from your keyboard.
It does not work during External Mode or Text Printing.

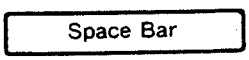
The spelling programs have been jointly developed by Panasonic Company and HMCo, based upon materials owned, developed, and copyrighted by Houghton Mifflin Company, Boston, Massachusetts, U.S.A. Reproduction or disassembly of embodied computer programs or algorithms prohibited.
Based upon The American Heritage Dictionary.

a. Spell Verify Operation

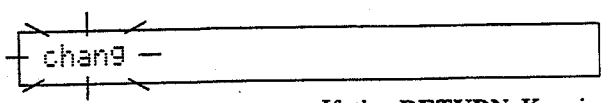


1 When you press the **Spell Verify ON/OFF** Key, the Spell Verify Indicator will light.

2 Input words from the keyboard as usual.
When you end a word (by pressing the **Space** Bar or **RETURN** Key, etc.), it will be checked.



- If the word is not contained in either the main dictionary or the user's dictionary, the typewriter will judge it to be a misspelled word, the buzzer will sound, and the word will flash.



- If the **RETURN** Key is pressed immediately after typing a misspelled word, the buzzer will sound but the word will not flash on the LCD Display.

3 Correct the misspelled word.
- The corrected word will also be checked.

Sometimes the buzzer will sound even if you type a correct word.
The reason for this is because the word is not in the main dictionary.
If the word is one which you use only very occasionally, you can ignore the buzzer and continue typing. If you use the word fairly frequently, it is a good idea to register it in the user's dictionary.

Spell Verify Function checks spelling according to the following rules.

- Numbers and symbols are also treated as part of a word. For example, "etc" is treated as a mistake, while "etc." is judged correct.
- Symbols before and after a word such as " (quotation mark) and ? (question mark) are first removed from the word before it is spell verified.
  For example, "Hello!!" is judged correct, but "Hallo!!" is judged incorrect.
- Some punctuation errors are detected. For example "word:)" will be judged as an error and the buzzer will sound.
- A word consisting of several words joined by hyphens, such as "mother-in-law", is spell verified as a single compound word.
- Spell verification takes into account the difference between capital letters and small letters. If you type [spell, Spell, SPELL], all of these words will be judged correct. This is because when a word is at the beginning of a sentence, it starts with a capital letter, while if it is part of a title it consists entirely of capital letters. If, however, you type [SPell], it will be judged incorrect.
- In the case of words which always begin with a capital letter, such as America, both "America" and "AMERICA" will be judged correct, however "america" will be judged incorrect.

Word Endings

Spell Verify checks a word when it has been completed.
The typewriter judges that a word has been completed when you perform one of the following operations:
- When you press the **Space** Bar after a word
- When you press the **RETURN** Key
- When you press a function key to move the Carriage or cursor (TAB, FWD, etc.)
- When you perform Right Margin Flush or Centering

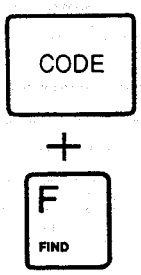
When you press the **RETURN** Key following a hyphen at the end of a line, the word will be connected to the beginning of the next line, and will be spell verified as a single word.

b. How to Verify the Spelling of an Entire Text File

1 While the Spell Verify Function is activated, press the **TEXT IN/OUT** Key, input the file name to be verified, and press the **RETURN** Key.

2 Move the cursor to the position where you wish to start the check.

```
writer product
```



3 Press the **F** Key while pressing the **CODE** Key.

- Each word in the text will be verified from the cursor position sequentially to the end of the text.

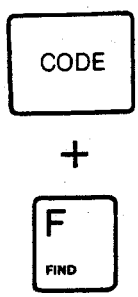
```
VERIFYING
```

- If a word that is not in the dictionary is found, spell verification will be interrupted, the buzzer will sound, and the word will appear as a flashing indication on the LCD Display.

```
your-xepessed
```

5 Correct the misspelled word.

```
your-expressed_
```



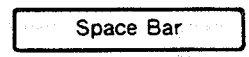
6 To continue spell verification, press the **F** Key while pressing the **CODE** Key again.

- If no misspelled words are found in any part of the text, the following message will appear, and the cursor position remains unchanged.

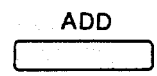
```
VERIFIED
```

C. How to Add Words to the User's Dictionary

1 Type the word to be registered.



2 Press the **Space** Bar. The word will flash on the LCD Display.



3 Press the **ADD** Key. The word will be registered in the user's memory.

```
ADDED
```

```
George
```

(Example: If you added the word "George")

- If there is no room in the user's dictionary memory to register the word, the buzzer will sound and the following message will appear.
  In this case, you must first delete a word or words already registered in order to register the new words.

```
DICTIONARY FULL
```

- The maximum length of a word which can be added is 30 characters.
  If you attempt to add a word which has 31 or more characters, the following message will appear.

```
WORD TOO LONG
```

- If a word surrounded by punctuation (e.g. (XXX) "XXX,") is added to the User's Dictionary, the entire sequence, including punctuation will be added. Therefore, it is best not to add words to the User's Dictionary when the occurrence is surrounded by punctuation. If an entry including punctuation is added accidentally, then a later example without punctuation will be beeped. In such a case, add the later example and delete the earlier form.

d. How to list the words in the user's dictionary

LIST

1 Set the space between the left and right margins to 61 spaces or more.

2 Press the **LIST** Key.

```
P : PRINT ?
```

```
D : DISPLAY ?
```

P STOP

3 Press the **P** Key.
- The words registered in the user's dictionary will be printed in alphabetical order.

```
LIST MODE
```

D

Press the **D** Key.
- The first word registered in the user's dictionary will appear on the LCD Display.

BACK SPACE ▲ FWD ▼

Each time you press the **FWD** Key or **BACK SPACE** Key, the next or the last word will be displayed in alphabetical order.

- Upon completion of printing or after the last word in the user's dictionary has been displayed, the following message will appear.

```
LIST MODE END
```

- To temporarily halt printing, press the **LIST** Key. Press again to resume printing.
- To exit the List Mode during printing or displaying, press the **Spell Verify ON/OFF** Key.
- Printing a list of the user's dictionary contents cannot be performed in the Text Memory Mode.

e. How to Delete Words from the User's Dictionary

LIST

1 Press the **LIST** Key, and then press the **D** Key.

```
P : PRINT ?
```

```
D : DISPLAY ?
```

D

BACK SPACE ▲ FWD ▼

2 Search for the word to be deleted by pressing the **FWD** Key or **BACK SPACE** Key.

DELETE

3 Press the **DELETE** Key when the word to be deleted is displayed.

```
DELETED
```

```
George
```

(Example: when you deleted "George")

SPELL VERIFY

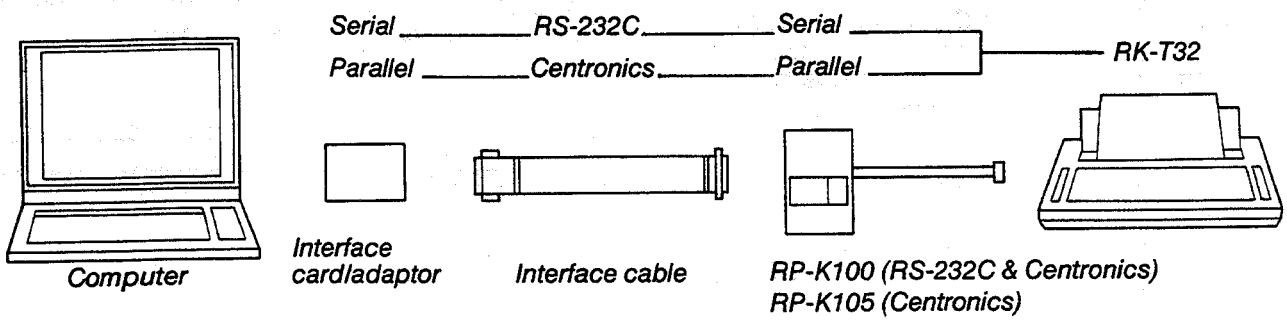
5 USE AS A PRINTER (with RP-K100/RP-K105)

To use this unit as a printer, the following must be purchased separately.
- **RP-K100/RP-K105** (Interface adaptor), optional
- Interface cable
- Interface card (if necessary for your computer)

a. Connection to a Computer

This unit has an input that is designed to receive data from the Panasonic RP-K100/RP-K105 Interface Adaptor. In turn, the RP-K100/RP-K105 connects to the computer (or to its external interface adaptor).

There are two ways that a computer can send its data to a printer, serial or parallel. In serial transfer, the computer sends one bit after another. In parallel transfer, it sends seven or eight bits at a time. The standard for serial transfer is called "RS-232C", while the standard for parallel is called "Centronics".
The RP-K100 can be used on each case "RS-232C" or "Centronics".
The RP-K105 is used on "Centronics" only.



	Computer	Interface Card	Cable
Parallel	Panasonic Sr. Partner RL-H7000	(built in)	supplied
	Panasonic Exec. Partner	(built in)	supplied
	IBM PC	Parallel Print Card	supplied
	Commodore 64	MW-350 (MICRO R&D) PPI (dsi)	Included in the Interface Card
	Apple IIc	MW-100 (MICRO R&D)	
	Apple IIe	#8132W (EPSON)	#8231 (EPSON)
Serial	Panasonic Sr. Partner RL-H7000	(built in)	RP-K110
	Panasonic Exec. Partner	(built in)	RP-K111
	Commodore 64 Commodore 128	Serial Printer Interface for Commodore Computers (Omnitronix)	supplied
	Apple IIc	(built in)	A9C0308 (Apple)
	Apple IIe	Super Serial Card (Apple)	RP-K110
	IBM PC	Asynchronous Adaptor Card (IBM)	RP-K111

When using a Centronics parallel interface...
A standard Centronics parallel interface cable can be purchased at many computer stores.

When using an RS-232C serial interface, set your computer as follows;
- Transmission speed: 300 baud
- Data length: 8 bits
- Stop bit: 1 or 2 bits
- Parity: None

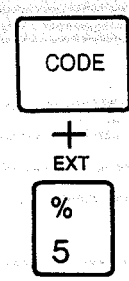
Commodore, Apple, IBM, Omnitronix, EPSON, dsi, and **MICRO R&D** are registered trademarks respectively of Commodore Business Machines INC., Apple Computers INC., International Business Machines INC., Omnitronix INC., Epson America INC., Data Share INC., and Micro R&D INC.

b. Operation

- If your computer is not equipped with a Centronics parallel interface or an RS-232C serial interface then you will need to purchase one for your computer.
- Switch off the power before proceeding with the connections.

Before connecting the computer, refer to the operating instructions for the RP-K100/RP-K105 and your computer.

One of the two adaptors (RP-K100 and RP-K105) is supplied in some countries.



1 Press the **5** Key while pressing the **CODE** Key.

```
EXT : ON LINE
```

2 Set the RP-K100/ RP-K105 to the On/ Line Mode. Then send a print command from the computer.

3 To stop printing temporarily, press the **PRINT ON/OFF** Key of the RK-T32.

```
EXT : OFF LINE
```

Press it again to resume printing.

- While data is being received by the Interface Adaptor, the Carriage automatically returns when it reaches the right margin. The paper advances one line and printing continues.
- When the **PRINT ON/OFF** Key is pressed, printing will stop after the current line has been printed.
- To exit the External Mode, press the **5** Key while pressing the **CODE** Key again.

[For RP-K100]

- If the unit's power is switched off and printing is forcibly stopped while data is being transmitted, the data will remain in the buffer memory of the RP-K100 Interface Adaptor.
  When printing is to be resumed, stop the transmission from the computer and turn off the power of the RP-K100 Interface Adaptor to clear the buffer memory.

C. Reference

Character Set

Every computer has a set of letters, numbers, and symbols that it can display on its screen. This is called its "character set". Every printer also has a character set, that is, the numbers, letters, and symbols that it can print.
Unfortunately, these character sets do not match perfectly from computer to computer or printer to printer. Fortunately, enough of the characters do match so that you can print English sentences and, of course, numerals. The characters that don't match are usually the foreign character accents and other special symbols.

Upper / Lower	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F
0			Space	0	@	P	`	p			ß	¨	Ú	à		
1			!	1	A	Q	a	q			½	Ä	á	˙		
2			"	2	B	R	b	r			¼	Ë	é	Â		
3			#	3	C	S	c	s				Ï	í	Ê		
4			$	4	D	T	d	t				Ö	ó	Î		
5			%	5	E	U	e	u				Ü	ú	Ô		ñ
6			&	6	F	V	f	v				ä	ˋ	Û		
7			'	7	G	W	g	w				ë	À	â		
8	BS		(	8	H	X	h	x			ç	ï	È	ê		
9	HT		)	9	I	Y	i	y				ö	Ì	î		˜
A	LF		*	:	J	Z	j	z			¡	ü	Ò	ô		Â
B		ESC	+	;	K	Space	k	Space			¿	ˊ	Ù	û		Ô
C			,	Space	L	Space	l	Space			¢	Á	à			Ñ
D	CR		-	=	M	Space	m	Space			£	É	è			ã
E			.	Space	N	^	n	~				Í	ì			õ
F			/	?	O	_	o					Ó	ò			

- For the five types of accent symbols (Codes, B0H, BBH, C6H, D1H, F9H) the carriage respectively stops at the printing position and moves after printing the next character.

Control Codes

Symbol	Code	Operation
BS	08H	Back Space
HT	09H	Tabulation
LF	0AH	Line Feed
CR	0DH	Carriage Return
ESC	1BH	Special functions in combination with the following code

•Expansion Function

ESC+"E" ..... (1BH+45H) ..... Bold ON
ESC+"F" ..... (1BH+46H) ..... Bold OFF
ESC+"G" ..... (1BH+47H) ..... Bold ON
ESC+"H" ..... (1BH+48H) ..... Bold OFF
ESC+"−"+00H.. (1BH+2DH+00H) .. Underline OFF
ESC+"−"+01H.. (1BH+2DH+01H) .. Underline ON
ESC+"−"+"0".. (1BH+2DH+30H) .. Underline OFF
ESC+"−"+"1".. (1BH+2DH+31H) .. Underline ON

Auto Line Feed Operation

Automatic Line Feed can be selected by setting the Carriage Return Mode as shown below.
•Automatic Carriage Return Mode .. Auto Line Feed ON
•Manual Carriage Return Mode .. Auto Line Feed OFF

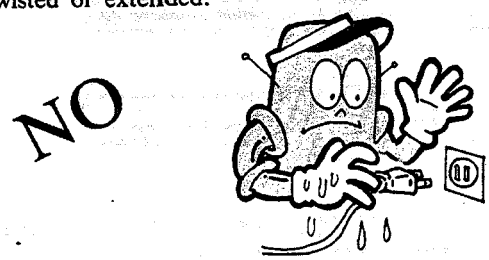
Code	Auto Line Feed ON	Auto Line Feed OFF
CR	Carriage Return, Line Feed	Carriage Return
LF	Carriage Return, Line Feed	Line Feed
CR+LF	Carriage Return, Line Feed	Carriage Return, Line Feed
LF+CR	Carriage Return, Line Feed	Carriage Return, Line Feed

6-1 CAUTIONS

a. Power Supply

Always grasp the plug when inserting into, or removing it from the AC Socket.
Never pull on the cord.

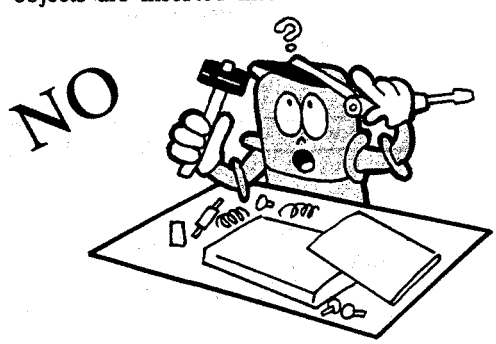
- Do not connect or disconnect with wet hands.
- Under no circumstances should the cord be pulled, twisted or extended.



b. Remodeling, Contact, etc.

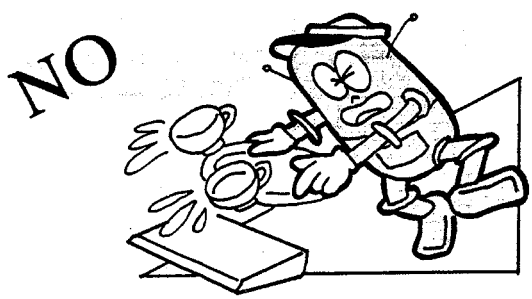
Remodeling will cause breakdowns or failures.

- Electric shocks or other failures may occur if any of the inside parts are touched or if clips or other metal objects are inserted into the unit.



Do not place containers with water on top of the unit.

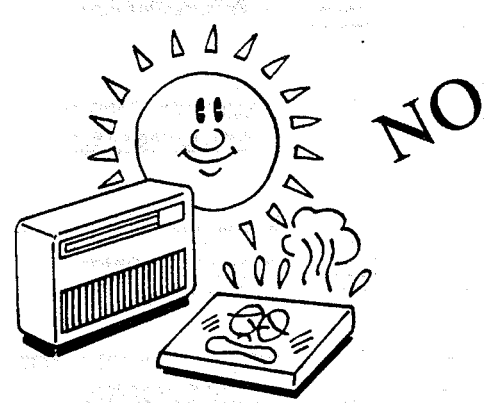
- This may cause a fire or electric shocks.



c. Locations for use

Do not use the unit in locations exposed to heavy dust or violent vibration.

- Avoid using the unit in locations exposed to direct sunlight or to high temperature or humidity levels.

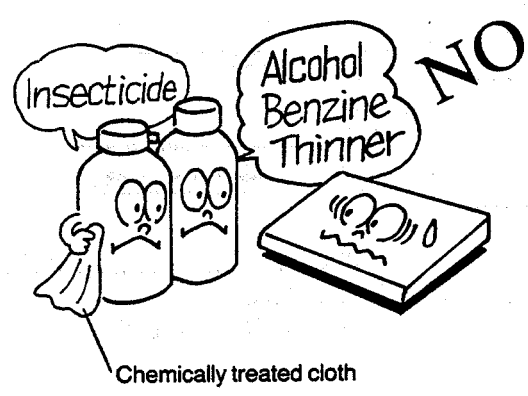


- Do not use the unit on a slant or at an angle.

d. Cleaning

Clean the case with a dry cloth. If badly stained, dip a cloth into water mixed with a small amount of detergent and remove the stains. Then wipe dry with a clean, dry cloth.

- Using Benzine, Thinners, Alcohol and Chemically treated cloth for cleaning or using Insecticide sprays near the unit may deform or discolor the unit.



6-2 LIST OF CODE KEY FUNCTIONS

CODE + C (CENTER) — Centering Refer to page 24.

CODE + F (FIND) — Check entire text memorized in text memory Refer to page 36.

CODE + H (HALF SP) — Half Space Refer to page 18.

CODE + L (IMPRESS) — Impression Control Refer to page 25.

CODE + M (QUANTITY) — Remaining amount of text memory indicated Refer to page 33.

CODE + N (NEXT) — Sequential Word Search Refer to page 32.

CODE + P (STOP) — Stop Code Refer to page 30.

CODE + R (RMF) — Right Margin Flush Refer to page 25.

CODE + S (SEARCH) — Word Search Refer to page 31.

CODE + X (EXCHANGE) — Replace word Refer to page 32.

CODE + XX ! 1 — Underlined printing Refer to page 22.

CODE + XX @ 2 — Boldface characters Refer to page 22.

CODE + AUTO # 3 — Automatic Carriage Return Mode Refer to page 23.

CODE + P INDENT $ 4 — Paragraph Indent Refer to page 23.

CODE + EXT % 5 — External Mode Refer to page 39.

CODE + KEYBOARD MAR REL — Keyboard selecting Refer to page 22.

CODE + - — Permanent Hyphen Refer to page 23.

CODE + BACK SPACE ▲ — Cursor moves to previous line Refer to page 30.

CODE + FWD ▼ — Cursor moves to next line Refer to page 30.

CODE + TAB CLR — Clearing all tabs Refer to page 16.

CODE + TAB D TAB — Decimal Tab Refer to page 24.

CODE + Space Bar — Permanent Space Refer to page 23.

CODE + RELOC EXPRESS — Cursor moves to the beginning Refer to page 30.

CODE + ⌫ TEXT CLR — Text Clear Refer to page 32.

CODE + RETURN — Used to enter return mark with Word Search input Refer to page 32.

6-3 OTHER

a. Troubleshooting

●Check the points below before calling in a serviceman.

Symptom	Cause	Remedy/check	Reference page
No operation even when keys are pressed. Nothing appears on the LCD Display.	**POWER** Switch on "OFF".	Set the **POWER** Switch to "ON".	7
	"EXT" Mode.	Exit the External Mode.	39
	The LCD Contrast Adjuster is set to low contrast.	Adjust the setting of the LCD Contrast Adjuster.	——
Unit does not print correctly, or printing is blurred.	Paper Release Lever is in Release position.	Push lever to Lock position.	13
	End of Ribbon Cassette.	Replace with new Ribbon Cassette.	10~11
	Typing impression is too soft.	Increase typing impression	25
No deletion even with ⟨⊠ Key; blurred characters.	Correction Tape is not installed or has been used up.	Install Correction Tape or replace with new one.	12
Buzzer sounds during typing and typing is disabled (keys do not function).	Carriage at right margin.	Press the **RETURN** Key and move the Carriage to next line.	——
		Press the **MAR REL** Key and continue printing on same line.	16
	Text Memory is full.	Re-edit the data or cancel the Text Memory Mode.	33
The main unit does not operate properly or the mechanism error buzzer sounds continuously.	Noise on the AC line or static electricity may prevent the main unit from operating properly.	**All Reset** Turn the **POWER** Switch "OFF" once, then back "ON" again. If the unit still does not function properly, press the **TAB CLR** Key and ⟨⊠ Key simultaneously while pressing the **CODE** Key. At this time the Text Memory, Margin, Tab, etc., are all cleared.	——
When the buzzer sounds, a message will appear on the LCD Display, and the unit will cease to operate.	"C-ERR" appeared on the LCD Display.	Check to see if there is any foreign matter in the Carriage mechanism.	——
	"W-ERR" appeared on the LCD Display.	Check to see that the Cupwheel Print Element is installed.	8, 9
		Re-install the Cupwheel Print Element.	8, 9

OTHER

Symptom	Cause	Remedy/check	Reference page
When the buzzer sounds, a message will appear on the LCD Display, and the unit will cease to operate.	"R-ERR" appeared on the LCD Display.	Re-install the Ribbon Cassette or the Correction Tape.	10~12
		Replace the Ribbon Cassette or the Correction Tape with new one.	10~12
	"P-ERR" appeared on the LCD Display.	Check to see if there is any foreign matter adhering to the platen.	——

ANY TIME YOU PLACE YOUR HANDS NEAR THE INSIDE OF THE UNIT MAKE SURE THAT THE POWER SWITCH IS IN THE "OFF" POSITION.

b. Optional Accessories

Cupwheel Printing Element

- COURIER10 **RP-T153**

```
ABCDEFGHIJKLMNOPQRSTUVWXYZ
abcdefghijklmnopqrstuvwxyz
1234567890
```

- PICA10 **RP-T150**

```
ABCDEFGHIJKLMNOPQRSTUVWXYZ
abcdefghijklmnopqrstuvwxyz
1234567890
```

- ELITE12 **RP-T151**

```
ABCDEFGHIJKLMNOPQRSTUVWXYZ
abcdefghijklmnopqrstuvwxyz
1234567890
```

- SCRIPT1012 **RP-T152**

```
ABCDEFGHIJKLMNOPQRSTUVWXYZ
abcdefghijklmnopqrstuvwxyz
1234567890
```

- GOTHIC15 **RP-T154**

```
ABCDEFGHIJKLMNOPQRSTUVWXYZ
abcdefghijklmnopqrstuvwxyz
1234567890
```

Ribbon Cassette

- Correctable Film Ribbon Cassette **RP-T132**
- Fabric Ribbon **RP-T142**

Correction Tape

- Lift-off Correction Tape (2 pcs) **RP-T131**
- Cover-up Correction Tape (2 pcs) **RP-T141**

Typewriter Accessory Kit

- Correctable Film Ribbon Cassette (3 pcs) and Lift-off Correction Tape (2 pcs) **RP-TK130**
- Correctable Film Ribbon Cassette (2 pcs) **RP-TK120**

Computer Interface Cable (RS-232C)

- RS-232C Interface Cable **RP-K110** [for Commodore 64, Apple II and Panasonic RL-H7000 (Sr. Partner)]
- RS-232C Interface Cable **RP-K111** (for IBM PC)

Interface Adaptor

- Parallel/Serial Interface Adaptor **RP-K100**
- Parallel Interface Adaptor **RP-K105**

6-4 SPECIFICATIONS

Printing Element	Cupwheel: 96 characters
Print Speed	11 characters/sec.
Print Pitch	10 characters/inch 101 characters/line 12 characters/inch 121 characters/line 15 characters/inch 151 characters/line
Line Spacing	1, 1½, 2
Paper Capacity	Max. 12 inches (304.8 mm)
Print Capacity	Max. 10 inches (254 mm)
Display	15-character LCD Display
Ribbon Cassette	Correctable Film Ribbon (Standard Accessory) Fabric Ribbon
Correction Tape	Lift-off Tape (Standard Accessory) Cover-up Tape
Keyboard	Character Key: 45 Keys Function Key: 21 Keys
Correction Memory	One line
Text Memory	Max. 12000 characters
Interface	RS-232C (Serial) and Centronics (Parallel) with RP-K100 Centronics (Parallel) with RP-K105
Power Supply	AC: 110~127/220~240 V, 50/60 Hz or 240 V, 50 Hz
Power Consumption	45 W
Memory Protection	Lithium Battery (Built-in)
Operating Temperature	41°F~95°F (5°C~35°C)
Dimensions (W×H×D)	17.4″×3.7″×15.0″ (443×95×380 mm)
Weight	12.8 lbs. (5.8 kg)

●Design and Specifications are subject to change without notice.